BUILDING STANDARDS COMMISSION

2525 Natomas Park Drive, Suite 130 Sacramento, California 95833-2936 (916) 263-0916 FAX (916) 263-0959



March 25, 2014

Damon Letz, RCE
Building Official
City of Santa Clarita
23920 Valencia Boulevard, Suite 300
Santa Clarita, CA 91355

RE: Ordinance #13-12

Dear Mr. Letz:

This letter is to advise you of our determination regarding the referenced ordinance with express findings received from your agency on March 4, 2014.

Our review finds the submittal to contain one ordinance modifying provisions of the 2013 California Building Standards Code in Title 24, California Code of Regulations (code), and express findings complying with Health and Safety Code §§17958.7 and 18941.5. The code modification is accepted for filing and is enforceable. This letter attests only to the satisfaction of the cited law for filing of local code amendment supported by an express finding with the Commission. The Commission is not authorized by law to evaluate the merit of the code modification or the express finding.

Local modifications to the code are specific to a particular edition of the code. They must be readopted and filed with the Commission in order to remain in effect when the next triennial edition of the code is published.

On a related matter, should your city receive and ratify Fire Protection District ordinances making modifications to the code, be advised that Health and Safety Code §13869.7(c) requires such ratified ordinances and express findings to be filed with the Department of Housing and Community Development, Division of Codes and Standards, State Housing Law Program, rather than this Commission. Also, ordinances making modifications to the energy efficiency standards of the code may require approval from the California Energy Commission pursuant to Public Resources Code §25402.1(h)(2).

If you have any questions or need any further information, you may contact me at (916) 263-0916.

Sincerely,

Enrique M. Rodriguez

Associate Construction Analyst

CC:

Chron

Local Filings



23920 Valencia Boulevard • Suite 300 • Santa Clarita, California 91355-2196 A 10: 30

Phone: (661) 259 2490 - PAST (111) Phone: (661) 259-2489 • FAX: (661) 259-8125 www.santa-clarita.com

February 27, 2014

Mr. James McGowan California Building Standards Commission 2525 Natomas Park Drive, Suite 130 Sacramento, CA 95833-2936

Dear Mr. McGowan:

Subject: City Amendments to State Codes

This is to transmit a copy of the State Code amendments adopted by the City Council of the City of Santa Clarita on November 26, 2013.

As required by State law, the City's Building & Safety office will begin enforcement of these provisions in conjunction with the new State codes on January 1, 2014.

In addition to the City amendments, we are transmitting herewith a copy of City Ordinance No. 13-12, which lists the findings of the City Council that certain local geologic, climatic, and topographic conditions warrant the specified modifications to the State codes. These finding are consistent with the provisions of Section 17958.7 of the State Health and Safety Code.

Enclosed for your reference is a list of the findings for each City code section addressing each of the specific amendments.

If you have any questions or comments, please contact me at (661) 255-4982 or via email dletz@santa-clarita.com

Damon Letz, RCE City Building Official

s\PW\BLDG\B&S Codes & Design Manuals\Code Adoptions\2013 Code Adoption\City Amendments\2013 Findings Transmittal Letter Enclosures

cc: Robert Newman, Director of Public Works Bill Read, Assistant Building Official





Agenda Item: 9

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CITY OF SANTA CLARITA AGENDA REPORT

PUBLIC HEARING

City Manager Approval:

Item to be presented by: Damon Letz

DATE:

November 26, 2013

SUBJECT:

SECOND READING AND ADOPTION OF AN ORDINANCE TO ADOPT THE 2013 CALIFORNIA BUILDING STANDARDS CODE WITH LOCAL AMENDMENTS, AMENDING TITLES 18.

19, 20, 21, 22, 24, AND 25 OF THE SANTA CLARITA

MUNICIPAL CODE

DEPARTMENT:

Public Works

RECOMMENDED ACTION

City Council:

- 1. Conduct a public hearing for the adoption of the 2013 California Building Standards Code with local amendments.
- 2. Adopt an ordinance entitled "AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANTA CLARITA, CALIFORNIA, REPEALING AND REPLACING TITLES 18 THROUGH 22, AND TITLES 24 AND 25 OF THE SANTA CLARITA MUNICIPAL CODE AND ADOPTING BY REFERENCE THE 2013 CALIFORNIA ADMINISTRATIVE, BUILDING, RESIDENTIAL, ELECTRICAL, MECHANICAL, PLUMBING, ENERGY, EXISTING BUILDING, HISTORICAL BUILDING, FIRE, GREEN BUILDING STANDARDS, AND REFERENCED STANDARDS CODES WITH CERTAIN APPENDICES AND LOCAL AMENDMENTS."

BACKGROUND

At the November 12, 2013, City Council meeting an ordinance was introduced and passed to second reading to adopt the 2013 California Building Standards Code (building code) along with local amendments. At the meeting, a public hearing was set, in accordance with Government Code Section 50022.3, to consider adoption of the ordinance. Public notice was duly given for the public hearing in compliance with the State of California (State) law, and a copy of the proposed codes and local amendments was made available for public view in the City Clerk's office.

Adopted: Ordinance 13-12

Adoption of this ordinance will ensure the City of Santa Clarita (City) continues to enforce the latest adopted building codes along with updated local amendments, thus providing for the safety and welfare of all citizens through the implementation of the latest technology, materials, engineering, construction, and sustainability methods, as regulated by the latest adopted building codes.

The ordinance establishes an effective date of January 1, 2014, to commence enforcement of building codes and local amendments. This date conforms to the effective date established by the State for mandatory enforcement of the new codes.

ALTERNATIVE ACTIONS

Should City Council elect not to adopt the proposed State codes and local amendments, the City would still be required to enforce the new State codes as set forth in Health & Safety Code 17922 and 17958 et al. Additionally, the updated local amendments, if not adopted, would not be enforceable. Failure to adopt the ordinance could also result in a downgrading of the City's Insurance Services Office rating, thereby negatively affecting the insurance rates for new construction.

FISCAL IMPACT

This ordinance does not increase permit-related fees nor does it modify any fees charged to the public for Building & Safety provided services.

ATTACHMENTS

Ordinance -

Title 18 City Building Code - adoption and local amendments

Title 19 City Electrical Code - adoption and local amendments

Title 20 City Plumbing Code - adoption and local amendments

Title 21 City Mechanical Code - adoption and local amendments

Title 22 City Fire Code - adoption

Title 24 City Energy Conservation Code - adoption

Title 25 City Green Building Standards Code - adoption

Public Notice

ORDINANCE NO. 13-12

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF
SANTA CLARITA, CALIFORNIA, REPEALING AND REPLACING TITLES 18 THROUGH
22, AND TITLES 24 AND 25 OF THE SANTA CLARITA MUNICIPAL CODE AND
ADOPTING BY REFERENCE THE 2013 CALIFORNIA ADMINISTRATIVE, BUILDING,
RESIDENTIAL, ELECTRICAL, MECHANICAL, PLUMBING, ENERGY, EXISTING
BUILDING, HISTORICAL BUILDING, FIRE, GREEN BUILDING STANDARDS, AND
REFERENCED STANDARDS CODES WITH CERTAIN APPENDICES AND LOCAL
AMENDMENTS

WHEREAS, the State of California (State) requires by its Government Code that local jurisdictions adopt the latest State Building Standards Code; and

WHEREAS, the State has adopted and published the 2013 California Administrative, Building, Residential, Electrical, Mechanical, Plumbing, Energy, Existing Building, Historical Building, Fire, Green Building Standards, and Referenced Standards Codes comprising Title 24 of the California Code of Regulations, Parts 1 through 12, with each becoming effective on January 1, 2014; and

WHEREAS, the State allows local jurisdictions to amend said codes in accordance with Health and Safety Code Section 18941.5 (b) where necessary to reasonably address adverse local conditions related to climate, geology, and/or topography; and

WHEREAS, the City Council finds the local topography consists of natural hillsides, canyons, and rugged terrain that can contribute to accelerated spread of wildfires, and the local climate consists of hot, dry, and wind conditions during the summer and fall creating severe fire hazard that warrants enhanced construction provisions for fire safety; and

WHEREAS, the City Council also finds the local geology consists of an active Class B earthquake fault, geologic formations, and areas subject to liquefaction presenting a significant earthquake risk that warrants enhanced design and construction provisions for structural safety; and

WHEREAS, the City Council also finds the need to modify and/or add certain administrative provisions to effectively enforce the regulations contained in the 2013 California Building Standards Code; and

WHEREAS, this Ordinance repeals the current City Building, Electrical, Plumbing, Mechanical, Fire, Energy Conservation, and Green Building Standards Codes and amendments thereto and adopts the new 2013 California Administrative, Building, Residential, Electrical, Mechanical, Plumbing, Energy, Existing Building, Historical Building, Fire, Green Building Standards, and Referenced Standards Codes with local amendments; and

WHEREAS, enforcement of the 2013 California Building Standards Code are mandated by the State to commence on January 1, 2014.

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF SANTA CLARITA, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. That current Titles 18 through 22, Title 24, and Title 25 of the Santa Clarita Municipal Code are hereby repealed.

SECTION 2. Titles 18 through 22, Title 24, and Title 25 of the Santa Clarita Municipal Code are replaced with the revised editions consisting of the adoption of the 2013 State codes with local amendments, outlined as follows and to read as attached:

TITLE 18, CITY BUILDING CODE

TITLE 19, CITY ELECTRICAL CODE

TITLE 20, CITY PLUMBING CODE

TITLE 21, CITY MECHANICAL CODE

TITLE 22, CITY FIRE CODE

TITLE 24, CITY ENERGY CONSERVATION CODE

TITLE 25, CITY GREEN BUILDING STANDARDS CODE

SECTION 3. This Ordinance shall become effective and in full force on January 1, 2014.

SECTION 4. The City Clerk shall certify to the passage of this Ordinance and shall cause the same to be published as required by law.

PASSED, APPROVED, AND ADOPTED this 26th day of November 2013.

ATTEST:

INTERIM CITY CLERK

DATE: 19/13/13

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) ss.
CITY OF SANTA CLARITA)

I, Arminé Chaparyan, Interim City Clerk of the City of Santa Clarita, do hereby certify that the foregoing Ordinance 13-12 was regularly introduced and placed upon its first reading at a regular meeting of the City Council on the 12th day of November 2013. That thereafter, said Ordinance was duly passed and adopted at a regular meeting of the City Council on the 26th day of November 2013, by the following vote, to wit:

AYES:

COUNCILMEMBERS:

Ferry, Weste, Boydston, McLean, Kellar

NOES:

COUNCILMEMBERS:

None

ABSENT:

COUNCILMEMBERS:

None

AND I FURTHER CERTIFY that the foregoing is the original of Ordinance 13-12 and was published in The Signal newspaper in accordance with State Law (G.C. 40806).

City of Santa Clarita amendments to Title 24 of the California Code of Regulations

Justification Key

- A. This amendment is necessary for administrative clarification and does not modify a Building Standard pursuant to California health and Safety Code Sections 17958, 17958.5, and 17958.7. This amendment establishes administrative standards for the effective implementation and enforcement of building standards as contained in Title 24 of the California Code of Regulations throughout the City of Santa Clarita.
- B. This amendment is justified on the basis of a local **geologic condition**. *Rationale:* The City of Santa Clarita is located in an area known for high seismic activity. Both the 1971 San Fernando earthquake and the 1994 Northridge earthquake resulted in significant structural damage to buildings within the city's boundaries. The San Gabriel fault runs directly through a portion of the city and is considered an active class 'B' fault. The San Andreas fault is located less than 40 miles to the east of city. As determined from the most recent U.S. Geologic maps the entire city is classified as seismic design category E. Additionally, many areas within the city contain expansive soils or soils with high sulfate levels which can negatively impact footing and foundation design. This local amendment is designed to reduce property damage from a major seismic event or adverse soil conditions through enhanced structural provisions and to establish criteria for repair of damaged property following such an event.
- C. This amendment is justified on the basis of a local **climatic condition**. *Rationale:* The Santa Clarita valley is surrounded by undeveloped mountainous areas on all sides. The seasonal climatic conditions during the late Summer and Fall in this region create a severe fire hazard. Dry, hot temperatures cause natural vegetation growing in the nearby foothills and mountains to become dry and extremely combustible. In addition, unpredictable seasonal wind conditions (Santa Ana winds) prevalent in this region add to the danger of possible wild fires. Approximately one-third of the city has been classified as Very High Fire Hazard Severity Zone (VHFHSZ) as established on maps prepared by the California Department of Forestry and Fire Protection (Cal Fire). Additionally, this area can be subject to heavy rains during the winter months that can cause flooding, erosion, or slope failure in the hillside or low laying areas. This local amendment is designed to reduce the chance of a structural fire from exposure to a major wild fire through the use of enhanced fire resistive materials and construction techniques or to reduce property damage from flooding, mud slides, or slope failure during the rainy season.
- D. This amendment is justified on the basis of a local **topographic condition**. *Rationale*: The topography in and around the City of Santa Clarita consists of rugged foothills and mountainous areas. Many portions of the city border or encroach into these hillside or foothill areas. Winding access roads can make timely response by fire suppression vehicles difficult. The rugged foothills are subject to fires during the hot dry periods or mudslides and flooding during the rainy wet months. This local amendment is designed to reduce the chance of property damage caused in the event of a wild fire, flooding or mudslide.

City of Santa Clarita amendments to Title 24 of the California Code of Regulations

Part 2- 2013 California Building Code

SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION (see key)	
101.1	Name of building code as adopted at the local level	X			A	
103.1	Creation of enforcing agency	Х			Α	
104.10.1	Flood hazard areas	X	,		А	
105.2	Work exempted from permit	Х			Α	
105.2.2	Repairs and maintenance	Х			Α	
105.3.2	Time limitation of application	х			Α	
105.5	Expiration	Х			Α	
105.5.1	Re-activation of an expired permit		X		A	
105.5.2	Fees		Х		Α	
105.8	Combined building permits		Х		A	
107.1	Submittal documents	Х			Α	
107.2.1	Information on construction documents	· x			A.	
109.2	Schedule of permit fees	Х			Α	
109.2.1	Plans examination fees		Х		- A	
109.4	Work comencing before permit issuance	Х			Α	
109.6	Refunds	X			A	
110.3.11	Reinspections		Х		Α	
110.7	Construction placard and inspection record card		Х		Α	
110.8	Inspections during delcared emergencies		Х		А	
110.9	Special inspector registration		Х		А	
113.3	Qualifications	X			А	
113.4	Filing of appeals		Х		А	
114.2.1	Recordation of Notice of Violation		Х		А	
114.2.2	Termination of Notice		Х		А	
114.4	Violation penalties	Х			Α	
117	Prohibited uses of building sites		Х		A, B, D	
118	Fire Hazard Zones		Х		A, C, D	
Table 1505.1	Minimum Roof Covering Classification for types of construction	х			C, D	
1505.1.3	Roof coverings within all other areas	X			C, D	
1505.6.1	City fire hazard zone		Х		C, D	
1507.3.1	Deck requirements- concrete, clay tile	X			В	
1507.8.1	Deck requirements- wood shingles	X			В	
1507.9.1	Deck requirements- wood shakes	X			В	
1510.3.1	Inspections		Х		А	
1510.4	Roof recovering	Х			A, B	
1612.3	Establishment of flood hazard areas	X			A, C, D	
1613.6	Modify ASCE 7 Equation 12.12-1		Х		В	
1613.7	Modify ASCE 7, Section 12.2.3.1		Х		В	
1613.8	Modify ASCE 7, Section 12.11.2.2.3		Х		В	
1613.9	Seismic design provisions for hillside buildings		X		B, D	
1613.10	Suspended ceiling design		Х		В	
1613.11	Power actuated fasteners		Х		В	
1613.12	Light-gage mudsill anchors		Х		B, C	
1705.3	Concrete construction	X	-		В	
Table 1705.3	Required verification and inspection of concrete construction	X			В	
1705.11	Special inspections for seismic resistance	X			В	
1807.1.4	Permanent wood foundation systems	X			B, C, D	
1807.1.6	Prescriptive design of concrete and masonry foundation walls	X			В	

1808.7.2	Foundation setback from descending slope surface	Х	i i	B, D
1809.3	Stepped footings	Х		B, D
1809.4	Depth and width of footings	Х		В
1809.7	Prescriptive footings for light-frame construction	Х	-	В
Table 1809.7	Prescriptive footings supporting walls of light-frame construction	Х	\times	В
1809.12	Timber footings	Х		В
1810.3.2.4	Deep timber foundations	Х		В
1905.1.3	Modifications to ACI 318, Section 21.4	Х		В
1905.1.8	Modifications to ACI 318, Section 22.10	Х		В
1906.1	Design of structural plain concrete walls, footings, & pedestals	Х		В
2304.9.1	Fastener requirements	Х		В
2304.9.7	Framing requirements	Х		В
2304.9.8	Nails, staples, or spikes in withdrawal		X	В
2304.11.7	Wood used in retaining walls and cribs	Х		В
2305.4	Quality of nails		Х	В, С
2305.5	Open-front structures		X	В
2306.2	Wood structural panel diaphragms	Х		В
Table 2306.2(3)	Unblocked wood structural panel diaphragms		X	В
Table 2306.2(4)	Blocked wood structural panel diaphragms		Х	В
Table 2306.2(5)	Blocked wood structural panel diaphragms (high-load)		X	В
2306.3	Wood-frame shear walls	Х		В
2307.2	Wood-frame shear walls		Х	В
Table 2306.3(4)	Wood structural panel shear walls		Х	В
2308.3.4	Remove exception	Х		В
2308.9.3.1	Alternative bracing	Х		В
2308.9.3.2	Alternative bracing wall panel adjacent to a door/window	Х		В
Figure 2308.9.3.2	Alternative bracing wall panel adjacent to a door/window	Х		В
Table 2308.12.4	Wall bracing in seismic design categories D and E	Х		В
2308.12.5	Attachment of sheathing	Х		В
2512.1.2	Weep screeds	Х		С

pendix G of the CBC; Flood Resistant Construction							
SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION (see key)		
G102.2	Establishment of flood hazard areas	X			Α		
G104.1	Work in a flood hazard area	X			Α		
G301.1	Developments in a flood hazard area	X			A, C, D		
G901.1	Temporary structures	X			A, C, D		
G901.2	Temporary storage			Х	A, C, D		
G901.3	Floodway encroachment			Х	A, C, D		

Part 2.5- 2013 C	alifornia Residential Code					
SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION (see key) A	
R102.4.3	Local amendments		Х			
R102.7.1	Additions, alterations, or repairs	Х			A, B	
R102.7.1.1 Substantial improvement			Х	i	A, B	
R102.7.1.2	Substantial addition		Х	_	A, B	
R105.2	Work exempted from permit	Х	.(
R105.2.2	Repairs and maintenance	Х			Α	
R301.1.3.2	Woodframe structures	Х			A, B	
R301.1.4	Seismic design for buildings constructed on a slope	8	Х		B, D	
Table R301.2(1)	Climatic and Geographic design criteria	X			С	
Table R301.2.2.1.1	Seismic design category determination	X			В	

R301.2.2.2.5	Weights of materials	X			В
R301.2.2.3.8	Anchorage of components and equipment		. X		В
R401.1	Application	Х			B, C
R403.1.2	Continuous footings in seismic design categories D	X			В
R403.1.3	Seismic reinforcing	X			В
R403.1.4	Minimum depth	X			В
R403.1.5	Slope	X			В
R403.1.6.2	Light-gage mudsill anchors	X			B, C
R404.2	Wood foundation walls	Х			B, C
R501.1	Application	X			A, B
R503.2.4	Openings in horizontal diaphragms		Х		В
Figure 503.2.4	Openings in horizontal diaphragms		Х		В
R602.3.2	Top plate	X			В
Table R602.3(1)	Fastener schedule for structural members	X		8	В
Table R602.3(2)	Alternate attachments to Table R602.3(1)	X			В
Table R602.10.3(3)	Bracing requirements based on seismic design category	X			В
Table R602.10.4	Intermittent bracing methods	Х			В
Table R602.10.5	Minimum length of braced wall panels	X			В
Figure R602.10.6.1	Alternate braced wall panel	Х			В
Figure R602.10.6.2	Portal frame with hold-downs	Х			В
Figure R602.10.6.4	Continuously sheathed portal frame panel construction	X			В
R602.10.9.1	Braced wall panel support for seismic design category D			Х	В
R606.2.4	Parapet walls	X			. В
R606.12.2.2.3	Reinforcement requirements for masonry elements	X			В
R803.2.4	Openings in horizontal diaphragms		Х		В
R1001.3.1	Vertical reinforcing	X			В

SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION (see key)	
Article 100	Definitions (added)	X				
Article 690.19	Disconnectin means for multiple arrays		Х		А	
80.7	Title			X	Α	
80.13	Authority	Х			Α	
80.13(17)	Alternate material, method, waiver		Х		Α	
80.15	Electrical board	X			Α	
80.19(A)(3)	Building Official refusal of permit issuance for illegal work		Х		Α	
80.19(C)	Issuance of permits	X			Α	
80.19(D)	Owner-builder permits	X			Α	
80.19(E)	Fees	X			Α	
80.21	Plan review	X			Α	
80.21(D)	Submittal documents		Х		Α	
80.21(E)	Information required on plans		Х		Α	
80.21(F)	Plan review fees		Х		A	
80.21(G)	Expiration of plan review		Х		Α	
80.23(B)(3)	Penalties	Х			Α	
80.25	Connection to electricity supply	Х			Α	
80.27	Inspector qualifications			Х	A	
80.29	Liability for damages	Х			Α	
80.35	Effective date			X	A	

Part 5- 2013 California Plumbing Code							
SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION		
		AWENDED			(see key)		

101.1	Title	X			Α
101.4.4	Work in public right-of-way		Х		A
102.1	Authority having jurisdiction	X			Α
102.6	Appeals		Х		Α
103.4.1	Permit fees	X			A
103.4.2	Plan review fees	X			A
103.4.4.2	Investigation fee	X			Α
103.4.5.2	Refunds	X			A A A
301.1.5	Used materials		Х		
422.2	Toilet facilities	X	X		
714.6	Dry well water softeners		Х		A, B, C
714.7	Automatic water softeners		Х		A, B, C

t 4- 2013 California Mechanical Code							
SECTION	TITLE/DESCRIPTION	AMENDED	ADDED	DELETED	JUSTIFICATION (see key)		
101.0	Title	X			Α		
105.0	Alternate materials, methods of construction	Х			Α		
108.1	General	X			Α		
115.2	Permit fees	X			A		
115.3	Plan review fees	Х			A		
115.5.2	Investigation fee	· X			Α		
115.6.1	Refunds of permit fees	X			A		
115.6.2	Refunds of plan review fees	Х			A		
115.6.3	Conditions of refunding fees	X			Α		

SANTA CLARITA MUNICIPAL CODE TITLE 18

CITY BUILDING CODE

Adoption of the City of Santa Clarita Building Code Including local amendments to the State adopted Codes As allowed by State law

Effective date: January 1, 2014

Table of Contents

CITY BUILDING CODE

Chapters:

18.01	Adoption of the City Building Code
18.02	Amendments to CBC Chapter 1 Division II; Scope and Administration
18.03	Amendments to CBC Chapter 15; Roof Assemblies and Rooftop Structures
18.04	Amendments to CBC Chapter 16; Structural Design
18.05	Amendments to CBC Chapter 17; Structural Tests and Special Inspections
18.06	Amendments to CBC Chapter 18; Soils and Foundations
18.07	Amendments to CBC Chapter 19; Concrete
18.08	Amendments to CBC Chapter 23; Wood
18.09	Amendments to CBC Chapter 25; Gypsum Board and Plaster
18.10	Amendments to CBC Appendix G; Flood Resistant Construction
18.11	Amendments to CRC Chapter 1; Division II; Administration
18.12	Amendments to CRC Chapter 3; Building Planning
18.13	Amendments to CRC Chapter 4; Foundations
18.14	Amendments to CRC Chapter 5; Floors
18.15	Amendments to CRC Chapter 6; Wall Construction
18.16	Amendments to CRC Chapter 8; Roof-Ceiling Construction
18.17	Amendments to CRC Chapter 10; Chimneys and Fireplaces

Chapter 18.01

ADOPTION OF THE CITY BUILDING CODE

There is hereby adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Parts 1, 2, 2.5, 6, 8,10, and 12 as published by the California Building Standards Commission as further described and including the following:

2013 California Administrative Code (California Code of Regulations Title 24, Part 1)

2013 California Building Code (California Code of Regulations Title 24, Part 2) based on the 2012 International Building Code® as prepared by the International Code Council, and as amended by the State of California

2013 California Residential Code (California Code of Regulations Title 24, Part 2.5) based on the 2012 International Residential Code® as prepared by the International Code Council, and as amended by the State of California

2013 California Historical Building Code (California Code of Regulations Title 24, Part 8)

2013 California Existing Building Code (California Code of Regulations Title 24, Part 10) based on the 2012 International Existing Building Code® as prepared by the International Code Council, and as amended by the State of California

2013 California Referenced Standards Code (California Code of Regulations Title 24, Part 12)

Such code shall include those sections requiring enforcement by the local building department, and as further amended by the City of Santa Clarita with provisions intended to address local climatic, geologic, and topographic conditions, as permitted by State law. Adoption of said code shall include the adoption of Appendix C *Group U-Agricultural Buildings*, Appendix G *Flood Resistant Construction*, and Appendix J *Grading*, contained in the 2013 California Building Code and Appendix H *Patio Covers*, contained in the 2013 California Residential Code.

Such Code shall be and become the City of Santa Clarita Building Code, regulating the erection, construction, alteration, repair, relocation, demolition, occupancy, use, height, area, and maintenance of all buildings and structures, and certain equipment therein specifically regulated. The provisions of said code shall provide for the issuance of permits and certificates of occupancy, and collection of fees thereof, and providing penalties for violation of such Code.

The City of Santa Clarita Building Code shall become effective for all new building permit applications received by the City on or after January 1, 2014.

At least one copy of the City of Santa Clarita Building Code shall be maintained and kept available for reference and examination by the public at the City's Permit Center public counter.

Chapter 18.02

AMENDMENTS TO CHAPTER 1 DIVISION II; SCOPE AND ADMINISTRATION, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 1 Division II of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted or amended as follows:

Subsection 101.1 is amended to read as follows:

101.1 Title. These regulations, including all duly adopted local amendments, shall be known as the *Santa Clarita Building Code* and shall be used in conjunction with the provisions of Title 24, California Code of Regulations, mandated by the State of California to be enforced by the local Building Department, and shall hereinafter be referred to as "this code."

Subsection 103.1 is amended to read as follows:

103.1 Creation of enforcement agency. There is established within the City of Santa Clarita, a division in the Public Works Department to be known as the "Building & Safety Division" under the administrative and operational control of the City Building Official hereafter referred to as the Building Official.

Subsection 104.10.1 is amended to read as follows:

104.10.1 Flood hazard areas. The Building Official shall not grant modifications to any provision required in flood hazard areas as established by Section 1612.3 of this code unless a determination has been made in accordance with the Floodplain Management portion of the Santa Clarita Municipal Code, Title 10, Chapter 10.06. Refer to Appendix G of this code for Flood-resistant construction requirements

Subsection 105.2 is amended to read as follows:

105.2 Work Exempted from Permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of the City of Santa Clarita including such requirements as may be established by any City department or division or the requirements of any other governing agency. Unless otherwise exempted, separate plumbing, electrical, and mechanical permits will be required for any such items exempted herein.

Permits shall not be required for the following:

Building:

1. One-story detached light-framed accessory structures used as tool and storage sheds, playhouses, trellis structures, gazebos, arbors, greenhouses and similar uses where the gross floor area does

not exceed 120 square feet as measured to the outside walls or support posts and the structure complies with all of the following conditions:

- a. The floor is not more than 30 inches above the adjoining grade,
- b. The overall height is not more than 14 feet as measured from adjacent grade,
- c. The structure is not constructed on a slope steeper than 3:1,
- d. The structure is not within a flood hazard or floodplain,
- e. The structure has no permanent heating or air-conditioning,
- f. The location of the structure is approved by the City's Planning Division.

Note: Storage or tool sheds over 120 square feet but not exceeding 250 square feet in area that meet the above conditions may be constructed under a 'foundation only' permit. Such permit may include the installation of one 20 Amp branch circuit, (1) light fixture and one (1) 110/115 V. GFCI outlet.

- 2. Where allowed by the City's Planning Division, chain link or wire fences not over 12 feet in height, wood, vinyl, or open wrought iron fences not over 6 feet in height, and block walls or pilasters not over 42 inches in height where not constructed within a flood hazard or floodplain.
- 3. Sidewalks and driveways which are not more than 30 inches above adjacent grade and not over any basement or story below, and are not part of an accessible route as required per Chapter 11A or 11B of this code.
- 4. Decks or platforms accessory to a Group R-3 or U occupancy that are not more than 30 inches above adjacent grade or constructed over a slope or in a flood hazard or floodplain.
- 5. Exterior hardscape features such as patios, seating walls, walkways, stepped walks or stairs integrated in a slope, koi ponds, fountains or similar water features not over 18 inches in depth, raised planters and similar hardscape features that are accessory to a Group R-3 or U occupancy.
- 6. Canopies, awnings, or open trellises that do no extend more than 36 inches from the exterior wall of a building or, if attached to a Group R, Division 3, or Group U occupancy, do not extend more than 54 inches and are not within 3 feet of the property line.
- 7. Retaining walls that are not over 4 feet in height measured from the bottom of the footing to the top of the wall, or where supporting a slope or surcharge, not more than 30 inches in height measured from bottom of footing to the top of the wall. For 'dry stacked' interlocking retaining wall systems such as 'keystone walls' the maximum exempt height is 36 inches above the lowest adjacent grade or 18 inches where supporting a slope or surcharge. This exemption does not apply to retaining walls constructed on a slope steeper than 3:1, located in a floodplain, or impounding Class I, II or IIIA liquids.
- 8. Fixed or moveable cases, racks, shelving, and partitions not exceeding 6 feet in height. The installation of such elements shall not reduce aisle widths, clearances or means of egress to less than that required by this Code.
- 9. The installation of decorative moldings, trim, window treatments, wall coverings, painting, papering, tiling, carpeting, hardwood or tile flooring, counters or countertops, tub or shower surrounds and similar interior finish work. Notwithstanding, all such materials and work shall comply with applicable provisions of Chapter 8 of this Code for allowable materials, combustibility and fire performance.
- 10. Garage and closet organizers, cabinets, or shelving not exceeding 8 feet in height within a Group R-3 or U occupancy.
- 11. Drywall within Group U occupancies not required to be part of a fire rated assembly.
- 12. The installation of replacement window units where installed within existing frames and where no stucco or siding is removed, provided the following conditions are met:
 - a. The net opening area of the existing window(s) is not reduced to less than that required by Sections 1203, 1205, and R303 of this code for light and ventilation
 - b. Any required egress (emergency escape) window, is replaced with an egress (emergency escape) window complying with Section 1029.1 or R310
 - c. The provisions of Section 2406 herein for safety glazing are met.
- 13. Satellite dishes not exceeding 30 inches in diameter where attached to a structure, or 36 inches in diameter where ground mounted and not exceeding 15 feet in height.
- 14. Radio or television antennae towers where ground mounted and not exceeding 30 feet in height.

- 15. Light standards which do not exceed 20 feet in height (electrical permits are required).
- 16. Flagpoles not exceeding 20 feet in height where not attached to or erected on any building or structure.
- 17. Prefabricated swimming pools or spas accessory to a Group R-3 occupancy provided that:
 - a. The capacity does not exceed 5,000 gallons
 - b. The pool or spa is not constructed on a slope greater than 3:1
 - c. The lowest point of the bottom of the pool or spa is not more than 24 inches below adjacent grade
 - d. The pool or spa is provided with a safety barrier as required in the California Health & Safety Code

An electrical permit is required for any permanently connected pumps or motors.

- 18. Structures or equipment accessory to a Group R occupancy which are intended solely for play or amusement, and which are clearly identifiable as such. These structures may include, but are not limited to: swings, slides, climbing structures and similar playground equipment, skateboard or bike ramps, pool slides whether built-in or free standing, basketball standards, tennis or sports courts (not including fencing or lighting), and similar structures. Notwithstanding, such structures must comply with all applicable zoning standards for use and location. Where a permanently constructed pool slide or other landscape feature also serves as part of a retaining wall, such portions of the construction that act as a retaining wall require a permit unless specifically exempted here in. An electrical permit is required for any permanently connected lighting or other electrical equipment.
- 19. Tree houses provided that:
 - a. The floor area does not exceed 64 square feet;
 - b. The ceiling height does not exceed 6 feet;
 - c. It is not constructed in an oak tree.
- 20. Temporary sheds, construction trailers, and other structures incidental to work authorized by a valid grading or building permit. Electrical and plumbing permits are required when there are any such connections associated with the temporary shed or construction trailer. Any such structure shall be removed upon completion of the work covered by the permit or expiration of the permit.
- 21. Tents, inflatable structures, and similar canopy structures, where used in conjunction with a special event, that are open on at least three sides and do not exceed 500 square feet in projected area, or where enclosed on two or more sides, that do not exceed 300 square feet in enclosed area. Notwithstanding, all such structures shall be adequately anchored to resist local wind forces.
- 22. Temporary stages or platforms that do not exceed 30 inches in height that are used in conjunction with a special event.
- Shade cloth structures constructed solely for nursery or agricultural purposes, not including service systems within such structures.
- 24. Temporary motion picture, television, and theater stage sets and scenery.
- 25. Gantry cranes and similar equipment.
- 26. Prefabricated water tanks supported directly on grade where the capacity does not exceed 5,000 gallons and the ratio of height to the diameter or width does not exceed one and one-half to one (1½:1).
- 27. The following work when conducted in association with an operating oil field:
 - a. Oil derricks;
 - b. Installation and relocation of process vessels and tanks;
 - c. Construction, installation and relocation of process piping and pipe supports;
 - d. Construction, installation and relocation of ladders, stairs, and catwalks;
 - e. Installation of foundations for process vessels, pipe supports, generators, tanks, pumps, and uninhabited buildings located more than 20 feet from any property line;
 - f. Construction, installation, and relocation of uninhabited buildings;
 - g. Road maintenance;
 - h. Grading of new and existing well pads, provided the grading does not affect an adjoining property;
 - i. Grading and construction for erosion control, provided it does not effect an adjoining

property;

j. Debris basin maintenance;
 (Note: The waiver of a building permit shall not be deemed as a waiver from the oil field operator from obtaining the required clearances from other public agencies.)

Electrical:

Note: refer to the 2013 California Electrical Code with local amendments for additional exemptions

- Low-voltage wiring for security systems, telephone or other communication systems, door bells, intercom or sound systems, television cable, and similar installations within a Group R-3 or U occupancy.
- 2. Electrical equipment used for commercial radio and television transmitting stations, excluding any equipment or wiring for the power supply to any such station.

Mechanical

Note: refer to the 2013 California Mechanical Code with local amendments for additional exemptions

- 1. Portable equipment including heating appliances, ventilation equipment, air-conditioning or evaporative cooling units.
- 2. Self-contained refrigeration systems containing 10 pounds or less of refrigerant and actuated by motors of 1 horsepower or less.

Subsection 105.2.2 is amended to read as follows:

105.2.2 Repairs and Maintenance. Application or notice to the Building Official is not required for ordinary maintenance or repairs to structures. In no case shall the repair or maintenance work create an unsafe condition or violate any provision of State or codes. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements.

Permits shall not be required for the following repair or maintenance work:

- 1. General building maintenance.
- 2. Painting, papering, carpeting and similar work.
- 3. Repair of minor portions of a building or structure damaged by dry-rot, termites, or deterioration provided the elements being replaced do not reduce the integrity of the building or structure.
- 4. Repairs to a roof on a building or structure not exceeding 10 percent of the total roof area or 200 square feet, whichever is less, provided such exempt limits are not exceeded within any one-year period of time.
- 5. Drywall repairs not exceeding 200 square feet when not part of a fire rated assembly.
- 6. Replacement of panes of glass within existing frames provided the provisions of Section 2406 of this Code for safety glazing are met. Note: refer to exemption 12 under Section 105.2 'Work Exempted from Permit; Building", herein, for additional requirements that may apply.
- 7. Replacement of any component part of mechanical or electrical equipment provided it does not alter approval of such equipment or make such equipment unsafe.
- 8. Replacement of any faucet, sink, water closet, shower head or similar plumbing fixture with a fixture of like type. Notwithstanding, the replacement of such fixtures shall comply with applicable provisions of the California Plumbing Code and California Green Building Standards Code for water-conserving fixtures.
- 9. Replacement of any kitchen appliance, non-commercial hood, exhaust or ceiling fan, lighting fixture, lamp or bulb, or similar item with a fixture, appliance, or other item of like type.
- 10. The clearing of stoppages or the repairing of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe or valve becomes necessary to remove and replace the same with new material, such work shall be

considered as new work and a permit shall be obtained and inspection made as provided in this code.

Ordinary repairs shall not include addition to, alteration of, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

Subsection 105.3.2 is amended to read as follows:

105.3.2 Time limitation of application. An application for which no permit is issued within 180 days following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The building official is authorized to extend the time for action by the applicant for a period not to exceed 180 days upon request by the applicant. A second extension not exceeding 180 days may be granted by the building official under all of the following conditions:

- 1. The applicant submits a written request for such extension showing justifiable cause;
- 2. There have been no changes to any of the governing codes under which the plans were originally submitted since the original date of application;
- 3. An administrative fee as established must be paid at the time the second extension is granted. Where there have been changes to governing codes under which the plans were originally submitted, the Building Official may grant a second extension provided the plans are revised to reflect any such changes as a condition of the extension. Additional plan review fees will apply in such cases. No further application extensions will be granted after a second extension.

Subsection 105.5 is amended to read as follows:

105.5 Expiration. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after its issuance as evidenced by a valid inspection of work by the building department. In such cases where the work authorized on the site by such permit has commenced and is then suspended or abandoned for a period of 180 days after the time the work is commenced the permit shall become in-active. The Building Official is authorized to grant one or more extensions of time for periods of time not to exceed 180 days each, or to re-activate a permit as provided for in subsection 105.5.1 and 105.5.2

Subsections 105.5.1 and 105.5.2 are added to read as follows:

105.5.1 Re-activation of an Expired Permit. The Building Official may approve the reactivation of a permit that has become invalid (either expired or inactive), upon written request by the permittee, under the following conditions:

- 1. The suspension or abandonment of work has not exceeded two years.
- 2. There have been no changes to any of the governing codes under which the permit was originally issued since the original date of application.
- 3. Where there have been changes to the governing codes under which the permit was originally issued, the Building Official may require any work that has not been installed or completed to meet the provisions of the most current governing codes as a condition of re-activation.

105.5.2 Fees. In order to renew action on a permit after it has become invalid, the permittee shall pay a fee as determined by the Building Official not to exceed 50 percent of the original permit fee. Any permit extensions subsequent to an initial extension require the payment of an administrative fee as determined.

Subsection 105.8 is added to read as follows:

105.8 Combined Building Permits. A combination permit may be issued for a single project when it is determined that the same contractor is licensed so as to perform all of the proposed work associated with the project and it is reasonable to combine the permits into a single permit.

The following permits may be combined:

- A combined building permit may be issued for new one-family or two-family dwellings
 including additions or alterations thereto. Such permits will include all building, electrical,
 plumbing, heating, ventilating and air-conditioning work but will not include fire sprinkler
 installations, sewer connections in the public right-of-way, or grading work requiring a permit
 as specified in the Unified Development Code.
- 2. A combined permit may be issued for multi-family residential or non-residential construction projects under similar conditions as listed under number one (1) above when prior approval has been granted by the Building Official.
- 3. A combined building permit may be issued for a swimming pool and shall include excavation and finish grading for construction of the pool and related landscaping, construction of the pool structure, decking, pool equipment enclosure walls, and all such plumbing and electrical work as required for the pool.
- 4. A combined permit may be issued for a commercial sign and shall include all structural and electrical work required to install the sign.

Combined permits shall not be issued for separate work which is entirely unrelated and under separate trades such as building and electrical.

The combined building permit shall be subject to the requirements of this code, the Electrical Code, the Plumbing Code, the Mechanical Code, the Energy Code and the Green Building Standards Code. The fee for the combined building permit shall be as provided for in Section 109 herein including amendments.

Subsection 107.1 is amended to read as follows:

107.1 General. Submittal documents consisting of construction documents, statement of special inspections, geotechnical report and other data shall be submitted with each permit application. Submittal documents may be submitted in electronic format as determined by the Building Official. The construction documents shall be prepared by a registered design professional as outlined in the California *Business and Professions Code* or as determined by the Building Official. Where special conditions exist, the Building Official is authorized to require additional construction documents to be prepared by a registered design professional.

Exception: (no change)

Subsection 107.2.1 is amended to read as follows:

107.2.1 Information on construction documents. Construction documents shall be dimensioned and drawn to scale upon suitable material. Labeling, lettering, dimensioning, and numbering shall be of a size and style to be easily read and shall be in conformance with accepted professional practices and standards for architectural and engineering documents. Electronic media documents may be submitted as determined by the Building Official. Construction documents shall be of sufficient clarity and completeness to indicate the location, nature, use and occupancy, and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws,

ordinances, rules and regulations, as determined by the Building Official. Submitted plans and specifications, which are deemed incomplete or incorrect, shall be returned to the architect or registered engineer or other individual in general responsible charge with a request for compliance with these regulations before checking is begun or resumed by Building & Safety Division staff.

Subsection 109.2 is amended to read as follows:

109.2 Schedule of permit fees. On buildings, structures, alterations, additions, electrical, gas, mechanical and plumbing systems, or any other work requiring a permit, a fee for each permit shall be paid as established by the City Council. Where a combined permit is issued, the permit fee shall include the combined fees for applicable building, electrical, mechanical, plumbing, and sewer work.

Subsection 109.2.1 is added to read as follows:

109.2.1 Plans Examination Fees. When submittal documents are required by Section 107.1 a plans examination review fee shall be paid at the time of submittal of the construction documents to the building department. Said fee shall be as established by the City Council. When submittal documents are incomplete or changed by the applicant so as to require additional plan review or when the project involves deferred submittal items as defined in Section 107.3.4.2, an additional plans examination fee shall be charged for such additional time as may be required to review all such additional work.

Subsection 109.4 is amended to read as follows:

109.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical, or plumbing system for which a permit is required by this code before obtaining the necessary permits shall be subject to an investigation fee whether or not a permit is then or subsequently issued. The investigation fee shall be equal to twice the amount of the permit fee. Payment of such fee shall not exempt any person from compliance with all other provisions of this code nor from any other penalty prescribed by law.

Subsection 109.6 is amended to read as follows:

109.6 Refunds. The Building Official may authorize refunding of any fee paid hereunder which was erroneously paid or collected.

The Building Official may authorize refunding of not more than 80 percent of the permit fee paid, excluding issuance fees or plan review fees, when no work has been done under a permit issued in accordance with this code and the applicant has submitted a written request to cancel said permit along with the original signed permit, inspection record card, and construction placard.

The Building Official may authorize refunding of not more than 80 percent of the plans examination fee paid, excluding any application fee, when an application for a permit for which a plan review fee has been paid is withdrawn or canceled prior to commencing any plan review.

The Building Official shall not authorize refunding of any fee paid except on written application filed by the original applicant or permittee not later than 90 days after the date the permit or application for a permit has expired.

Subsection 110.3.5 is amended to delete the exception allowed under this subsection which excludes the need for an inspection of gypsum board that is not part of a fire-resistance-rated assembly or a shear assembly.

Subsection 110.3.11 is added to read as follows:

110.3.11 Reinspections. A reinspection fee may be assessed for each inspection or reinspection under any of the following conditions:

- 1. When such portion of work for which inspection is called is not complete and ready.
- 2. When corrections previously called for by the inspector have not been made.
- 3. When the approved plans are not readily available to the inspector at the time of the requested inspection.
- 4. When access to the jobsite is not available at the time the inspection was scheduled.
- 5. When there is a deviation from the approved plans related to the work to be inspected and such deviation was not previously reviewed and approved by Building & Safety staff.

In instances where a reinspection fee has been assessed, no additional inspection of the work will be performed until the required fee has been paid.

Subsection 110.7 is added to read as follows:

110.7 Construction Placard and Inspection Record Card. Work requiring a building permit shall not be commenced until the permit holder or the permit holder's agent have posted in a conspicuous location at the construction site, a construction placard provided by the Building Official at the time of permit issuance. Said placard shall not be removed until final approval of the work by the building department. The inspection record card shall also be made available so as to allow the Building Official or his designated representative to conveniently make the required entries thereon regarding inspection of the work.

The Inspection Record Card shall serve as temporary approval to occupy and/or use the described project for up to ten (10) working days following the Final Approval date, when signed with a Final Approval by the Building Official or his designated representative.

Subsection 110.8 is added to read as follows:

110.8 Inspections During Declared Emergencies. The Building Official may authorize the performance of inspections required under this section to be performed by registered design professionals or by registered deputy inspectors, for repair work during a declared emergency. The persons performing the inspections shall submit a report, to the satisfaction of the Building Official, demonstrating that the work they inspected conformed to the requirements of all applicable codes. The report will be similar to those required by Section 1704.1.2 of this code.

Subsection 110.9 is added to read as follows:

110.9 Special Inspector registration. Any person who acts in the capacity of a special inspector as defined in Section 1704.1 of this code for any project within the City of Santa Clarita requiring special inspections as outlined in Chapter 17 must be registered with the City of Santa Clarita to act in such capacity. In order to be registered, a person must pay a registration fee as established by the City Council and demonstrate to the satisfaction of the Building Official that he or she is qualified to perform those types of special inspections for which he or she is registered. Upon registration, a registration card will be issued to the individual by the Building Official.

Subsection 113.3 is amended to read as follows:

113.3 Qualifications. The Board of Appeals shall consist of those persons currently serving on the Planning Commission as appointed by the City Council.

Subsection 113.4 is added to read as follows:

113.4 Filing of Appeals. All appeals shall be made in writing and shall state specifically the order, decision, or determination made by the Building Official which is being appealed and wherein the Building Official erred in making the order, decision, or determination. The appeal shall be accompanied with a fee as established by the City Council. If, after reviewing the information submitted, the Building Official determines that the appeal does not merit a change in his or her order, decision, or determination, then the Building Official shall schedule a hearing by the Board of Appeals and the appellant shall be notified of the date and time of the hearing.

Subsection 114.2.1 and 114.2.2 are added to read as follows:

114.2.1 Recordation of Notice of Violation. The Building Official may record a notice with the County Recorder's Office that a property, building or structure, or any part thereof, is in violation of any provision of this code provided the provisions of this section are followed. The provisions of this section are cumulative with other provisions of this code and any other enforcement actions permitted by this code. A notice of violation may be placed upon the title of a property when violation of the building codes have been verified and documented to exist on the site.

The following procedures are established for recordation of Notice of Violation:

- **a.** If (1) the Building Official determines that any property, building or structure, or any part thereof is in violation of any provision of this code; and if (2) the Building Official gives written notice as specified below of said violation; and if (3) within 45 days of said notice, the property, buildings, or structures thereon are not brought into compliance with this code, then the Building Official may, in his sole discretion, at any time thereafter record with the County Recorder's Office a notice that the property and/or any building or structure located thereon is in violation of this code.
- **b.** Notice shall be provided in writing in accordance with the following:
 - 1. The notice shall be mailed registered, certified or first-class mail, or may be posted at the site if the site is occupied;
 - 2. The notice shall be addressed to the owner as indicated on the latest county roll;
 - 3. The notice shall specify what violations are being investigated or have been observed or verified;
 - 4. The notice shall indicate what mitigation action is required by the property owner and the time frame in which to commence and complete such mitigation;

5. The notice shall indicate that a notice of violation may be recorded with the County Recorder's Office by the Building Official should said violation(s) not be mitigated within 45 days of the date of the notice.

114.2.2 Termination of Notice. When the property owner has demonstrated to the Building Official that violations of the building code no longer exist, and all fees to cover the cost of the investigation of the violations have been paid to the City, as established by the City Council, the Building Official shall terminate the notice of violation.

Subsection 114.4 is amended to read as follows:

114.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters, or repairs a building or structure in violation of the approved construction documents or directive of the Building Official, or of a permit or certificate issued under the provisions of this code, is guilty of a misdemeanor punishable by a fine not exceeding \$1,000.00 or by imprisonment not exceeding six months, or by both such fine and imprisonment (see Section 17995 of the State Health and Safety Code). Such person shall be guilty of a separate offense for each and every day or portion thereof during which any violation of any of the provisions of this code is committed, continued, or permitted to remain.

Further, violators of this code may be subject to administrative citation and general penalties as provided for in Title 23 of the Santa Clarita Municipal Code.

Section 117 is added to read as follows:

Section 117 Prohibited Uses of Building Sites

117.1 Flood and Debris Hazard Sites. Buildings, other structures or appurtenances (including but not limited to walls and fences of any height) and fill are not permitted in an area determined by the City to be subject to flood hazard by reason of inundation, overflow, other special flood and debris hazards or erosion except as discussed in this section.

117.2 Geologic Hazard Sites. Any site or property determined or suspected to have a geologically hazardous condition or pose a potential threat to nearby properties shall be subject to the provisions of this subsection.

117.2.1 No building permit shall be issued when the Building Official finds that property outside the site of the proposed work could be damaged by activation or acceleration of a geologically hazardous condition, and such activation or acceleration could be attributed to the proposed work for which the permit is requested. For the purpose of this subsection, geologically hazardous condition does not include surface displacement due to earthquake faults.

117.2.2 Work requiring a building permit by this code is not permitted in an area determined by the Building Official to be subject to hazard from landslide, settlement or slippage. These hazards include those from loose debris, slopewash, and the potential for mudflows from natural slopes or graded slopes. For the purpose of this subsection, landslide, settlement or slippage does not include surface displacement due to the earthquake faults.

117.2.3 Subject to the conditions of subsection 117.2.1 permits may be issued in the following cases:

- a. When the applicant has submitted a geological and/or engineering report or reports which show that the hazard will be eliminated prior to the use of occupancy of the land or structures by modification of topography, reduction of subsurface water, buttressing, a combination of these methods, or by other means.
- b. When the applicant has submitted a geological and/or engineering report or reports which contain sufficient data to show that the site appears to be in no danger for the intended use.
- c. When the applicant has submitted a geological report which indicates that the site appears to be geologically safe for the proposed use but is located in an area subject to a hazard of a geological nature. However, before a permit is issued, the owner first shall record in the Department of Registrar-Recorder the findings of such report or reports, together with an agreement relieving the City and all officers and employees thereof of any liability for any damage or loss which may result from the issuance of such permit. This agreement shall provide that it is binding on all successors in interest of the owner and shall continue in effect until the Building Official records in the Department of Registrar-Recorder a statement that he finds such hazard no longer exists.
- d. When the work involves the alteration or minor repair of existing structures and the cost of such alteration or repair does not exceed 25 percent of the value of the existing structure, such value to be based on assumed continuation of the established legal use. Before a permit is issued, the owner shall record in the office of the Department of Registrar-Recorder (1) a statement that he is aware that the records of the building official indicate that the property is subject to a physical hazard of a geological nature and (2) an agreement relieving the City and all officers and employees thereof of any ability for any damage or loss which may result from issuance of such a permit. This agreement shall provide that it is binding on all successors in interest of the owner and shall continue in effect until the Building Official records in the office of the Department of Registrar-Recorder a statement that he finds such hazard no longer exists. The repair work shall consist of restoring the original construction. Provision may be made for adjustment of the floor in anticipation of future settlement. For the purposes of this subsection "alteration" does not include an addition or additions.
- e. When the work involves an addition or additions to an existing structure but is not a change in use or occupancy and such work does not increase the area of the structure by more than 25 percent of the area of the structure. Before a permit is issued, the applicant shall submit a geological and/or engineering report or reports complying with the provisions of subsection (f) of this section which report or reports contain a finding that the proposed increased use of the site will not be geologically unsafe, and the owner shall record in the office of the Department of Registrar-Recorder (1) the finding of such report or reports and (2) an agreement relieving the City and all officers and employees thereof of any liability for any damage or loss which may result from the issuance of such a permit. This agreement shall provide that it is binding on all successors in interest of the owner and shall continue in effect until the Building Official records in the office of the Department of Registrar-Recorder a statement that he finds a hazard no longer exists.
- f. When the work involves a one-story, light-frame accessory structure not intended or used for human occupancy and not exceeding four hundred (400) square feet in area nor greater than 12 feet in height.

When the work involves the repair of single-family residences and accessory buildings where the cost of such repair exceeds 25 percent of the value of the existing building or

involves the replacement of such structures where the loss to be replaced was due to causes other than landslide, settlement or slippage. Before a permit is issued the owner shall:

- 1) Record in the office of the Department of Registrar-Recorder (1) a statement that he is the owner and that he is aware that the records of the Building Official indicate that the property is subject to a physical hazard of a geological nature and (2) an agreement relieving the City and all officers and employees thereof of any liability for any damage or loss which may result from issuance of such a permit. This agreement shall provide that it is binding on all successors in interest of the owner and shall continue in effect until the Building Official records in the office of the Department of Registrar-Recorder a statement that he finds such hazard no longer exists.
- 2) Submit calculations and plans for the proposed reconstruction prepared by a registered civil engineer and designed to minimize damage while accommodating the amount of vertical and horizontal displacements which he determines are probable or which have occurred since the original structure was built, whichever is the greater.
- g. Notwithstanding any other provisions of this subsection, the Building Official may, at his discretion, deny a permit for any building, structure or grading subject to a hazard of a geological nature which cannot be mitigated and may endanger the health or safety of the occupants, adjoining property, or the public.
- 117.3 Fills Containing Decomposable Material. Permits shall not be issued for buildings or structures regulated by this code within 1,000 feet of fills containing rubbish or other decomposable material unless the fill is isolated by approved natural or man-made protective systems or unless designed according to the recommendation contained in a report prepared by a licensed civil engineer. Such report shall contain a description of the investigation, study and recommendation to minimize the possible intrusion, and to prevent the accumulation of explosive concentrations of decomposition gases within or under enclosed portions of such building or structure. At the time of the final inspection, the civil engineer shall furnish a signed statement attesting that the building or structure has been constructed in accordance with his recommendations to decomposition gases required herein.
- 117.4 Conditional Use. Work required by this section as a condition for the use of the site shall be performed prior to the connection of the utilities or occupancy of the building.
- 117.5 Methane Gas Hazard Sites. Permits shall not be issued for buildings or structures regulated by this code on, adjacent to, or within 200 feet of active, abandoned or idle oil or gas well(s) unless designed according to recommendations contained in a report prepared by a licensed civil engineer and approved by the Building Official. As used in this section, "well" shall mean any well as defined by Section 3008, subdivisions (a) and (b) of the California Public Resources Code.
- 117.6 Geology and Engineering Reports. The Building Official may require an engineering geology or geotechnical engineering report, or both, where in his opinion such reports are essential for the evaluation of the safety of the site. The engineering geology or geotechnical engineering report or both shall contain a finding regarding the safety of the building site for the proposed structure against hazard from landslide, settlement, or slippage and a finding regarding the effect that the proposed building or grading construction will have on the geologic stability of the property in question and properties immediately adjacent. Any engineering geology report shall be prepared by a certified engineering geologist licensed by the State of California. Any geotechnical engineering report shall be prepared by a civil engineer qualified to perform this work, such as a geotechnical engineer experienced in soil mechanics. When both an engineering geology and geotechnical engineering report are required for the evaluation of the safety of a building site, the two reports shall be coordinated before submission to the Building Official.

117.7 Earthquake Faults.

- 1. General. The construction of a building or structure near a known active earthquake fault and regulated by this code shall be permitted as set forth in this section.
- 2. Scope. The provisions of this section shall apply only to permits for buildings or structures on individual lots or parcels and are not intended to be supplementary to geologic investigations required to qualify divisions of land as set forth in the Uniform Development Code of the City of Santa Clarita.
- 3. **Definition.** For the purpose of this section, a "geologist" shall be a registered geologist, licensed by the California State Board of Registration for Geologists and Geophysicists to practice geology in California.
- 4. Known Active Earthquake Faults. For the purpose of this section, known active earthquake faults are those faults which have had displacement within Holocene time (approximately the last 11,000 years) as defined in the most current issue of Special Publication 42 of the California Division of Mines and Geology.
- 5. Earthquake Fault Maps. Special studies zone maps within the City of Santa Clarita prepared under Sections 2622 and 2623 of the California Resources Code which show traces of earthquake faults are declared to be, on the date of official issues, a part of this code. Special studies zones maps revised under the above sections of the California Resources Code shall, on the date of their official issue, supersede previously issued maps. Copies of each of the above maps shall be available for examination by the public at the City. The City shall maintain maps available to the public showing the location of known active earthquake faults. In the absence of additional information, the location of known active earthquake faults shall be as shown on special studies zones maps.
- **6.** Construction Limitations. No building or structure shall be constructed over or upon the trace of a known active earthquake fault in the following cases:
 - a. When the proposed building is within 50 feet of that line designated as the location of a known active earthquake fault on the aforementioned maps.
 - b. When the proposed building is within 50 feet of the most probable ground location of the trace of a known active earthquake fault shown on the aforementioned maps.

In cases when a geologist has not made such a determination, the City may require the excavation of a trench, as a subsurface exploration for the purpose of determining the absence of a known active earthquake fault. Such a trench will be required if a lack of distinguishable fault features in the vicinity prevents the City from determining by a site examination, review of available aerial photographs, or by other means that the fault trace does not underlie the proposed building. The trench shall be approximately perpendicular to the most probable direction of the fault trace, at least 18 inches wide, and at least five feet in depth measured from natural grade, or to a depth satisfactory to the City.

The trench must be accessible for mapping and inspection by the City, when requested, and meet the requirements of Title 8 of the California Code of Regulations, Construction Safety Orders. The trench need not extend further than the full width of the proposed structure plus five feet beyond the traversed exterior walls. A known active earthquake fault shall be presumed nonexistent if an exposure is not found in the walls or floor of the trench. The City may require a more extensive investigation by a geologist as evidence to the absence of a known active earthquake fault prior to the issuance of a building permit.

EXCEPTION: The provisions of this subsection do not apply to:

- 1. One-story, light-frame buildings classified as R-3 and U occupancies and not exceeding 1,000 square feet in area or 12 feet in height.
- 2. Alterations or repairs to an existing building provided that the aggregate value of such work

- within any 12 month period does not exceed 50 percent of the value of the existing building.
- 3. Swimming pools, retaining walls, fences and minor work of a similar nature.

Special Studies Zones. Work within the special studies zones established under Sections 2622 and 2623 of the California Public Resources Code shall comply with State laws, policies, criteria, rules and regulations applicable to such work. Fees established by Chapter 7.5 of Division 2 of the California Public Resources Code shall be collected and disbursed as required by State law. In addition to the State regulations, the provisions of this section shall apply when geologic investigations, mapping, aerial photographs, other acceptable data or Special Studies Zones Maps show the location of a known active earthquake fault as described in this subsection.

Section 118 is added to read as follows:

Section 118 Fire Hazard Zones ("Very High Fire Hazard Severity Zones")

118.1 General. For the purpose of this Code, Fire Hazard Zones are those areas in the City of Santa Clarita that have been designated as Very High Fire Hazard Severity Zones (VHFHSZ) by the Director of the California Department of Forestry and Fire Prevention and as shown on a map titled "City of Santa Clarita Fire Zone Map" retained on file by the City's Building & Safety division. Such map is declared to be, on the date of issue, a part of this Code. Should revisions be made to the map at the recommendation of the Director of the California Department of Forestry and Fire Prevention, the revised map, at the date of issue, shall supersede the previously issued map. A copy of the most current Fire Zone Map shall be available for examination by the public at the City Hall.

118.2 Scope. The provisions of this section shall apply to new buildings or structures on individual lots or parcels that are located in a Fire Hazard Zone as determined from the City of Santa Clarita Fire Zone Map for which an application for a permit is submitted.

118.3 Construction requirements for buildings or structures in the Fire Hazard Zone

- 118.3.1 General. Any building or structure hereafter erected, constructed, altered, added onto, or moved within or into a Fire Hazard Zone shall comply with all applicable provisions of Chapter 7A or Section R327 of this Code.
- **118.3.2 Roof covering repair or replacement.** Roof covering on an existing building or structure that is being repaired or replaced shall comply with Section 1505.1.1 of this Code.
- 118.3.3 Exterior wall covering of existing buildings. Where the exterior wall covering of an existing building or structure is being repaired or replaced and the cumulative area being repaired or replaced is greater than 50 percent of the total existing wall area, both the new and existing wall covering shall comply with the provisions of Section 707A or Section R327.7 of this Code in their entirety. The provisions of this subsection shall be cumulative over any one-year period.
- 118.3.4 Exterior windows and doors of existing buildings. Where exterior windows and/or doors of an existing building are being replaced with new windows and/or doors, and where the number of windows and/or doors being replaced is greater than 50 percent of the total number of windows and/or doors on the building, all windows and/or doors on the building shall comply with Section 708A or Section R327.8 of this Code. The provisions of this subsection shall be cumulative over any one-year period.

Chapter 18.03

AMENDMENTS TO CHAPTER 15; ROOF ASSEMBLIES AND ROOFTOP STRUCTURES, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 15 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Table 1505.1 is amended as follows:

TABLE 1505.1^a MINIMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION

Ĺ	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
ĺ	В	В	В	В	В	В	В	В	В

For SI

1 foot = 304.8 mm, 1 square foot = 0.0929 m^2

a. Unless otherwise required in accordance with Chapter 7A.

Subsection 1505.1.3 is amended to read as follows:

1505.1.3 Roof coverings within all other areas. The entire roof covering of every existing structure where more than 50 percent of the total roof area is replaced within any one-year period, the entire roof covering of every new structure, and any roof covering applied in the alteration, repair, or replacement of the roof of every existing structure, shall be fire-retardant roof covering that is at least Class B.

Subsection 1505.6.1 is added to read as follows:

1505.6.1 City of Santa Clarita Fire Hazard Zone. Wood shingles and wood shakes are not permitted to be used in any area that is within the City of Santa Clarita's Fire Hazard Zone (very high fire hazard severity zone) as shown on the City's Fire Zone Map.

Subsection 1507.3.1 is amended to read as follows:

1507.3.1 Deck Requirements. Concrete and clay tile shall be installed only over solid structural sheathing. Such sheathing shall have a minimum nominal thickness of 15/32".

Subsection 1507.8.1 is amended to read as follows:

1507.8.1 Deck requirements. Wood shingles shall be installed only over solid structural sheathing. Such sheathing shall have a minimum nominal thickness of 15/32".

Subsection 1507.9.1 is amended to read as follows:

1507.9.1 Deck requirements. Wood shakes shall be installed only over solid structural sheathing. Such sheathing shall have a minimum nominal thickness of 15/32".

Subsection 1510.3.1 is added to read as follows:

1510.3.1 Inspections. An inspection shall be required for all reroofing installations upon removal of all existing layers of roof coverings or, where the existing roof covering is to be recovered, prior to the installation of the new roofing material. Prior to such inspection, any damaged areas of the roof deck or structural framing members shall be repaired or replaced with new material.

Subsection 1510.4 is amended to read as follows:

1510.4 Roof recovering. Where the application of a new roof covering is proposed over wood shingle or shake roofs, the entire existing surface roofing material including all layers of wood shingle or shake shall first be removed. Where spaced sheathing was originally installed as the supporting material, new solid sheathing shall be added prior to the installation of the new roofing material.

Chapter 18.04

AMENDMENTS TO CHAPTER 16; STRUCTURAL DESIGN, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 16 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Section 1612.3 is amended to read as follows:

1612.3 Establishment of flood hazard areas. There is a map along with supporting data adopted by the City of Santa Clarita that designates areas of special flood hazard as identified by the Federal Emergency Management Agency (FEMA) in an engineering report entitled "The Flood Insurance Study for the City of Santa Clarita", dated September 29, 1989, as amended or revised with the accompanying Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) and related supporting data along with any revisions thereto. The most current amended or revised version of the flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section.

Section 1613.6 is added to read as follows:

1613.6 ASCE 7, 12.12.3. Modify ASCE 7 Equation 12.12-1 of Section 12.12.3 to read as follows:

 $\delta_{\rm M} = C_{\rm d} \, \delta_{\rm max}$ (Equation 12.2-1)

Section 1613.7 is added to read as follows:

1613.7 ASCE 7, 12.2.3.1, Exception 3. Modify ASCE 7 Section 12.2.3.1 Exception 3 to read as follows:

3. Detached one- and two-family dwellings up to two stories in height of light frame construction.

Section 1613.8 is added to read as follows:

1613.8 ASCE 7, Section 12.11.2.2.3. Modify ASCE 7, Section 12.11.2.2.3 to read as follows:

12.11.2.2.3 Wood Diaphragms. In wood diaphragms, the continuous ties shall be in addition to the diaphragm sheathing. Anchorage shall not be accomplished by use of toe nails or nails subject to withdrawal nor shall wood ledgers or framing be used in cross-grain bending or cross-grain tension. The diaphragm sheathing shall not be considered effective as providing ties or struts required by this section.

Wood diaphragms supporting concrete or masonry walls shall comply with the following:

- 1. The spacing of continuous ties shall not exceed 40 feet. Added chords of diaphragms may be used to form sub-diaphragms to transmit the anchorage forces to the main continuous crossties.
- 2. The maximum diaphragm shear used to determine the depth of the sub-diaphragm shall not exceed 75% of the allowable diaphragm shear.

Section 1613.9 is added to read as follows:

1613.9 Seismic Design Provisions for Hillside Buildings.

1613.9.1 Purpose. The purpose of this section is to establish minimum regulations for the design and construction of new buildings and additions to existing buildings when constructing such buildings on or into slopes steeper than one unit vertical in three units horizontal (33.3%). These regulations establish minimum standards for seismic force resistance to reduce the risk of injury or loss of life in the event of earthquakes.

1613.9.2 Scope. The provisions of this section shall apply to the design of the lateral-force-resisting system for hillside buildings at and below the base level diaphragm. The design of the lateral-force resisting system above the base level diaphragm shall be in accordance with the provisions for seismic and wind design as required elsewhere in this division.

Exception: Non-habitable accessory buildings and decks not supporting or supported from the main building are exempt from these regulations.

1613.9.3 Definitions. For the purposes of this section certain terms are defined as follows:

BASE LEVEL DIAPHRAGM is the floor at, or closest to, the top of the highest level of the foundation.

DIAPHRAGM ANCHORS are assemblies that connect a diaphragm to the adjacent foundation at the uphill diaphragm edge.

DOWNHILL DIRECTION is the descending direction of the slope approximately perpendicular to the slope contours.

FOUNDATION is concrete or masonry which supports a building, including footings, stem walls, retaining walls, and grade beams.

FOUNDATION EXTENDING IN THE DOWNHILL DIRECTION is a foundation running downhill and approximately perpendicular to the uphill foundation.

HILLSIDE BUILDING is any building or portion thereof constructed on or into a slope steeper than one unit vertical in three units horizontal (33.3%). If only a portion of the building is supported on or into the slope, these regulations apply to the entire building.

PRIMARY ANCHORS are diaphragm anchors designed for and providing a direct connection as described in Sections 1613.9.5 and 1613.9.7.3 between the diaphragm and the uphill foundation.

SECONDARY ANCHORS are diaphragm anchors designed for and providing a redundant diaphragm to foundation connection, as described in Sections 1613.9.6 and 1613.9.7.4.

UPHILL DIAPHRAGM EDGE is the edge of the diaphragm adjacent and closest to the highest ground level at the perimeter of the diaphragm.

UPHILL FOUNDATION is the foundation parallel and closest to the uphill diaphragm edge

1613.9.4 Analysis and Design.

1613.9.4.1 General. Every hillside building within the scope of this section shall be analyzed, designed, and constructed in accordance with the provisions of this division. When the code prescribed wind design produces greater effects, the wind design shall govern, but detailing

requirements and limitations prescribed in this and referenced sections shall be followed.

1613.9.4.2 Base Level Diaphragm-Downhill Direction. The following provisions shall apply to the seismic analysis and design of the connections for the base level diaphragm in the downhill direction.

1613.9.4.2.1 Base for Lateral Force Design Defined. For seismic forces acting in the downhill direction, the base of the building shall be the floor at or closest to the top of the highest level of the foundation.

1613.9.4.2.2 Base Shear. In developing the base shear for seismic design, the response modification coefficient (R) shall not exceed 5 for bearing wall and building frame systems. The total base shear shall include the forces tributary to the base level diaphragm including forces from the base level diaphragm.

1613.9.5 Base Shear Resistance-Primary Anchors.

1613.9.5.1 General. The base shear in the downhill direction shall be resisted through primary anchors from diaphragm struts provided in the base level diaphragm to the foundation.

1613.9.5.2 Location of Primary Anchors. A primary anchor and diaphragm strut shall be provided in line with each foundation extending in the downhill direction. Primary anchors and diaphragm struts shall also be provided where interior vertical lateral-force-resisting elements occur above and in contact with the base level diaphragm. The spacing of primary anchors and diaphragm struts or collectors shall in no case exceed 30 feet (9144 mm).

1613.9.5.3 Design of Primary Anchors and Diaphragm Struts. Primary anchors and diaphragm struts shall be designed in accordance with the requirements of Section 1613.9.8.

1613.9.5.4 Limitations. The following lateral-force-resisting elements shall not be designed to resist seismic forces below the base level diaphragm in the downhill direction:

- 1. Wood structural panel wall sheathing,
- 2. Cement plaster and lath,
- 3. Gypsum wallboard, and
- 4. Tension only braced frames.

Braced frames designed in accordance with the requirements of Section 2205.2.2 may be used to transfer forces from the primary anchors and diaphragm struts to the foundation provided lateral forces do not induce flexural stresses in any member of the frame or in the diaphragm struts. Deflections of frames shall account for the variation in slope of diagonal members when the frame is not rectangular.

1613.9.6. Base Shear Resistance-Secondary Anchors.

1613.9.6.1 General. In addition to the primary anchors required by Section 1613.9.5, the base shear in the downhill direction shall be resisted through secondary anchors in the uphill foundation connected to diaphragm struts in the base level diaphragm.

Exception: Secondary anchors are not required where foundations extending in the downhill direction spaced at not more than 30 feet (9144 mm) on center extend up to and are directly connected to the base level diaphragm for at least 70% of the diaphragm depth.

1613.9.6.2 Secondary Anchor Capacity and Spacing. Secondary anchors at the base level

diaphragm shall be designed for a minimum force equal to the base shear, including forces tributary to the base level diaphragm, but not less than 600 pounds per lineal foot (ASD) (8.76 kN/m). The secondary anchors shall be uniformly distributed along the uphill diaphragm edge and shall be spaced a maximum of four feet (1219 mm) on center.

1613.9.6.3 Design. Secondary anchors and diaphragm struts shall be designed in accordance with Section 1613.9.8.

1613.9.7 Diaphragms Below the Base Level-Downhill Direction. The following provisions shall apply to the lateral analysis and design of the connections for all diaphragms below the base level diaphragm in the downhill direction.

1613.9.7.1 Diaphragm Defined. Every floor level below the base level diaphragm shall be designed as a diaphragm.

1613.9.7.2 Design Force. Each diaphragm below the base level diaphragm shall be designed for all tributary loads at that level using a minimum seismic force factor not less than the base shear coefficient.

1613.9.7.3 Design Force Resistance-Primary Anchors. The design force described in Section 1613.9.7.2 shall be resisted through primary anchors from diaphragm struts provided in each diaphragm to the foundation. Primary anchors shall be provided and designed in accordance with the requirements and limitations of Section 1613.9.5.

1613.9.7.4 Design Force Resistance-Secondary Anchors.

1613.9.7.4.1 General. In addition to the primary anchors required in Section 1613.9.7.3, the design force in the downhill direction shall be resisted through secondary anchors in the uphill foundation connected to diaphragm struts in each diaphragm below the base level.

Exception: Secondary anchors are not required where foundations extending in the downhill direction, spaced at not more than 30 feet (9144 mm) on center, extend up to and are directly connected to each diaphragm below the base level for at least 70% of the diaphragm depth.

1613.9.7.4.2 Secondary Anchor Capacity. Secondary anchors at each diaphragm below the base level diaphragm shall be designed for a minimum force equal to the design force but not less than 300 pounds per lineal foot (ASD) (4.38 kN/m). The secondary anchors shall be uniformly distributed along the uphill diaphragm edge and shall be spaced a maximum of four feet (1219 mm) on center.

1613.9.7.4.3 Design. Secondary anchors and diaphragm struts shall be designed in accordance with Section 1613.9.8.

1613.9.8 Primary and Secondary Anchorage and Diaphragm Strut Design. Primary and secondary anchors and diaphragm struts shall be designed in accordance with the following provisions:

- 1. Fasteners. All bolted fasteners used to develop connections to wood members shall be provided with square plate washers at all bolt heads and nuts. Washers shall be minimum 0.229 inch by 3 inches by 3 inches (5.82 mm by 76 mm) by 76 mm) in size. Nuts shall be tightened to finger tight plus one half (1/2) wrench turn prior to covering the framing.
- 2. Fastening. The diaphragm to foundation anchorage shall not be accomplished by the use of toenailing, nails subject to withdrawal, or wood in cross-grain bending or cross-grain tension.

- 3. Size of Wood Members. Wood diaphragm struts collectors, and other wood members connected to primary anchors shall not be less than three-inch (76 mm) nominal width. The effects of eccentricity on wood members shall be evaluated as required per Item 9.
- 4. Design. Primary and secondary anchorage, including diaphragm struts, splices, and collectors shall be designed for 125% of the tributary force.
- 5. Allowable Stress Increase. The one-third allowable stress increase permitted under Section 1605.3.2 shall not be taken when the working (allowable) stress design method is used.
- 6. Steel Element of Structural Wall Anchorage System. The strength design forces for steel elements of the structural wall anchorage system, with the exception of anchor bolts and reinforcing steel, shall be increased by 1.4 times the forces otherwise required.
- 7. Primary Anchors. The load path for primary anchors and diaphragm struts shall be fully developed into the diaphragm and into the foundation. The foundation must be shown to be adequate to resist the concentrated loads from the primary anchors.
- 8. Secondary Anchors. The load path for secondary anchors and diaphragm struts shall be fully developed in the diaphragm but need not be developed beyond the connection to the foundation.
- 9. Symmetry. All lateral force foundation anchorage and diaphragm strut connections shall be symmetrical. Eccentric connections may be permitted when demonstrated by calculation or tests that all components of force have been provided for in the structural analysis or tests.
- 10. Wood Ledgers. Wood ledgers shall not be used to resist cross-grain bending or cross-grain tension.

1613.9.9 Lateral-Force-Resisting Elements Normal to the Downhill Direction.

- **1613.9.9.1 General.** In the direction normal to the downhill direction, lateral-force-resisting elements shall be designed in accordance with the requirements of this section.
- **1613.9.9.2** Base Shear. In developing the base shear for seismic design, the response modification coefficient (R) shall not exceed 5 for bearing wall and building frame systems.
- **1613.9.9.3 Vertical Distribution of Seismic Forces.** For seismic forces acting normal to the downhill direction the distribution of seismic forces over the height of the building using Section 12.8.3 of ASCE 7 shall be determined using the height measured from the top of the lowest level of the building foundation.
- 1613.9.9.4 Drift Limitations. The story drift below the base level diaphragm shall not exceed 0.007 times the story height at strength design force level. The total drift from the base level diaphragm to the top of the foundation shall not exceed 3/4 inch (19 mm). Where the story height or the height from the base level diaphragm to the top of the foundation varies because of a stepped footing or story offset, the height shall be measured from the average height of the top of the foundation. The story drift shall not be reduced by the effect of horizontal diaphragm stiffness.

1613.9.9.5 Distribution of Lateral Forces.

1613.9.9.5.1 General. The design lateral force shall be distributed to lateral-force-resisting elements of varying heights in accordance with the stiffness of each individual element.

1613.9.9.5.2 Wood Structural Panel Sheathed Walls. The stiffness of a stepped wood structural panel shear wall may be determined by dividing the wall into adjacent rectangular elements, subject to the same top of wall deflection. Deflections of shear walls may be estimated by AF&PA SDPWS Section 4.3.2. Sheathing and fastening requirements for the stiffest section shall be used for the entire wall. Each section of wall shall be anchored for shear and uplift at each step. The minimum horizontal length of a step shall be 8 feet (2438 mm) and the maximum vertical height of a step shall be 2 feet, 8 inches (813 mm).

1613.9.9.5.3 Reinforced Concrete or Masonry Shear Walls. Reinforced concrete or masonry shear walls shall have forces distributed in proportion to the rigidity of each section of the wall.

1613.9.9.6 Limitations. The following lateral force-resisting-elements shall not be designed to resist lateral forces below the base level diaphragm in the direction normal to the downhill direction:

- 1. Cement plaster and lath,
- 2. Gypsum wallboard, and
- 3. Tension-only braced frames.

Braced frames designed in accordance with the requirements of Section 2205.2.2 of this Code may be designed as lateral-force-resisting elements in the direction normal to the downhill direction, provided lateral forces do not induce flexural stresses in any member of the frame. Deflections of frames shall account for the variation in slope of diagonal members when the frame is not rectangular.

1613.9.10 Specific Design Provisions.

1613.9.10.1 Footings and Grade Beams. All footings and grade beams shall comply with the following:

- 1. Grade beams shall extend at least 12 inches (305 mm) below the lowest adjacent grade and provide a minimum 24-inch (610 mm) distance horizontally from the bottom outside face of the grade beam to the face of the descending slope.
- 2. Continuous footings shall be reinforced with at least two No. 4 reinforcing bars at the top and two No. 4 reinforcing bars at the bottom.
- 3. All main footing and grade beam reinforcement steel shall be bent into the intersecting footing and fully developed around each corner and intersection.
- 4. All concrete stem walls shall extend from the foundation and reinforced as required for concrete or masonry walls.

1613.9.10.2 Protection Against Decay and Termites. All wood to earth separations shall comply with the following:

1. Where a footing or grade beam extends across a descending slope, the stem wall, grade beam, or footing shall extend up to a minimum 18 inches (457 mm) above the highest adjacent grade.

Exception: At paved garage and doorway entrances to the building, the stem wall need only extend to the finished concrete slab, provided the wood framing is protected with a moisture proof barrier.

2. Wood ledgers supporting a vertical load of more than 100 pounds per lineal foot (ASD) (1.46 kN/m) and located within 48 inches (1219 mm) of adjacent grade are prohibited. Galvanized steel ledgers and anchor bolts, with or without wood nailers, or treated or decay resistant sill plates supported on a concrete or masonry seat, may be used.

1613.9.10.3 Sill Plates. All sill plates and anchorage shall comply with the following:

- 1. All wood framed walls, including nonbearing walls, when resting on a footing, foundation, or grade beam stem wall, shall be supported on wood sill plates bearing on a level surface.
- 2. Power-driven fasteners shall not be used to anchor sill plates except at interior non-bearing walls not designed as shear walls.
- **1613.9.10.4 Column Base Plate Anchorage.** The base of isolated wood posts (not framed into a stud wall) supporting a vertical load of 4,000 pounds (ASD) (17.8 kN) or more and the base plate for a steel column shall comply with the following:
 - 1. When the post or column is supported on a pedestal extending above the top of a footing or grade beam, the pedestal shall be designed and reinforced as required for concrete or masonry columns. The pedestal shall be reinforced with a minimum of four No. 4 bars extending to the bottom of the footing or grade beam. The top of exterior pedestals shall be sloped for positive drainage.
 - 2. The base plate anchor bolts or the embedded portion of the post base, and the vertical reinforcing bars for the pedestal, shall be confined with two No. 4 or three No. 3 ties within the top five inches (127 mm) of the concrete or masonry pedestal. The base plate anchor bolts shall be embedded a minimum of 20 bolt diameters into the concrete or masonry pedestal. The base plate anchor bolts and post bases shall be galvanized and each anchor bolt shall have at least two galvanized nuts above the base plate.

1613.9.10.5 Steel Beam to Column Supports. All steel beam to column supports shall be positively braced in each direction. Steel beams shall have stiffener plates installed on each side of the beam web at the column. The stiffener plates shall be welded to each beam flange and the beam web. Each brace connection or structural member shall consist of at least two 5/8 inch (15.9 mm) diameter machine bolts.

Section 1613.10 is added to read as follows:

- **1613.10** Suspended Ceilings. Minimum design and installation standards for suspended ceilings shall be determined in accordance with the requirements of Section 2506.2.1 of this Code and this section.
- **1613.10.1 Scope.** This part contains special requirements for suspended ceilings and lighting systems. Provisions of Section 13.5.6 of ASCE 7-10 shall apply except as modified herein.
- **1613.10.2** General. The suspended ceilings and lighting systems shall be limited to 6 feet (1828 mm) below the structural deck unless the lateral bracing is designed by a licensed engineer or architect.
- 1613.10.3 Sprinkler Heads. All sprinkler heads (drops) except fire-resistance-rated floor/ceiling or roof/ceiling assemblies, shall be designed to allow for free movement of the sprinkler pipes with oversize rings, sleeves or adaptors through the ceiling tile. Sprinkler heads and other penetrations shall have a 2 in. (50mm) oversize ring, sleeve, or adapter through the ceiling tile to allow for free movement of at least 1 in. (25mm) in all horizontal directions. Alternatively, a swing joint that can accommodate 1 in. (25 mm)

of ceiling movement in all horizontal directions is permitted to be provided at the top of the sprinkler head extension.

Sprinkler heads penetrating fire-resistance-rated floor/ceiling or roof/ceiling assemblies shall comply with Section 714 of this Code.

Section 1613.11 is added to read as follows:

1613.11 Power Actuated Fasteners. The provisions of Section 13.4.5 of ASCE 7 shall apply to the design of power actuated fasteners. Power actuated fasteners shall not be used to anchor sill plates or tracks except at interior non-bearing walls not designed as shear walls.

Section 1613.12 is added as follows:

1613.12 Light-gage mudsill anchors. Light-gage mudsill anchors which are intended to be bent upon installation shall not be used to anchor shear walls. Where light-gage anchors are used at exterior walls not designed as shear walls, they shall be fully protected by the exterior weather barrier assembly or by an approved corrosion-resistant coating.

AMENDMENTS TO CHAPTER 17; STRUCTURAL TESTS AND SPECIAL INSPECTIONS, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 17 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Section 1705.3 is amended to read as follows:

1705.3 Concrete Construction. The special inspections and verifications for concrete construction shall be as required by this section and Table 1705.3.

Exceptions: Special inspection shall not be required for:

- 1. Isolated spread concrete footings of buildings three stories or less above grade plane that are fully supported on earth or rock, where the structural design of the footing is based on a specified compressive strength, f'c, no greater than 2,500 pounds per square inch (psi) (17.2 MPa).
- 2. Continuous concrete footings supporting walls of buildings three stories or less in height that are fully supported on earth or rock where:
 - 2.1. The footings support walls of light-frame construction;
 - 2.2. The footings are designed in accordance with Table 1809.7; or
 - 2.3. The structural design of the footing is based on a specified compressive strength, f'c, no greater than 2,500 pounds per square inch (psi) (17.2 MPa), regardless of the compressive strength specified in the construction documents or used in the footing construction.
- 3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 MPa).
- 4. Concrete patios, driveways and sidewalks, on grade.

Table 1705.3, item 4 is amended as follows:

Amend item '4' and add note 'b' to Table 1705.3. Portions of Table 1705.3 not shown remain unchanged.

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
4. Inspection of anchors post- installed in hardened concrete members. a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	Х		ACI 318 D.9.2.4	-
b. Mechanical anchors and adhesive anchors not defined in 4a.		x	ACI 318 D.9.2	-

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 D.9.2 in ACI 318, or other qualification procedures. Where

specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

Subsection 1705.11 is amended to read as follows:

1705.11 Special inspections for seismic resistance. Special inspections itemized in Sections 1705.11.1 through 1705.11.8, unless exempted by the exceptions of Section 1704.2, are required for the following:

- 1. The seismic force-resisting systems in structures assigned to Seismic Design Category C, D, E or F in accordance with Sections 1705.11.1 through 1705.11.3, as applicable.
- 2. Designated seismic systems and associated seismic structural separations in structures assigned to Seismic Design Category C, D, E or F in accordance with Section 1705.11.4.
- 3. Architectural, mechanical and electrical components in accordance with Sections 1705.11.5 and 1705.11.6.
- 4. Storage racks in structures assigned to Seismic Design Category D, E or F in accordance with Section 1705.11.7.
- 5. Seismic isolation systems in accordance with Section 1705.11.8.

Exception: Special inspections itemized in Sections 1705.11.1 through 1705.11.8 are not required for structures designed and constructed in accordance with one of the following:

- 1. The structure consists of light-frame construction; the design spectral response acceleration at short periods, SDS, as determined in Section 1613.3.4, does not exceed 0.5; and the building height of the structure does not exceed 35 feet (10 668 mm)
- 2. The seismic force-resisting system of the structure consists of reinforced masonry or reinforced concrete; the design spectral response acceleration at short periods, SDS, as determined in Section 1613.3.4, does not exceed 0.5; and the building height of the structure does not exceed 25 feet (7620 mm)
- 3. The structure is a detached one- or two-family dwelling not exceeding two stories above grade plane, is not assigned to Seismic Design Category D, E or F and does not have any of the following horizontal or vertical irregularities in accordance with Section 12.3 of ASCE 7:
 - 3.1 Torsional or extreme torsional irregularity.
 - 3.2 Nonparallel systems irregularity.
 - 3.3 Stiffness-soft story or stiffness-extreme soft story irregularity.
 - 3.4 Discontinuity in lateral strength-weak story irregularity.

AMENDMENTS TO CHAPTER 18; SOILS AND FOUNDATIONS, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 18 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection 1807.1.4 is amended to read as follows:

1807.1.4 Permanent wood foundation systems. Permanent wood foundation systems shall not be permitted.

Subsection 1807.1.6 is amended to read as follows:

1807.1.6 Prescriptive design of concrete and masonry foundation walls. Concrete and masonry foundation walls that are laterally supported at the top and bottom shall be permitted to be designed and constructed in accordance with this section. Prescriptive design of foundation walls shall not be used for structures assigned to Seismic Design Category D, E or F.

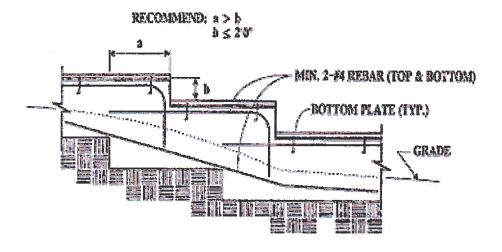
Subsection 1808.7.2 is amended to read as follows:

1808.7.2 Foundation setback from descending slope surface. Foundations on or adjacent to slope surfaces shall be founded in firm material with an embedment and set back from the slope surface sufficient to provide vertical and lateral support for the foundation without detrimental settlement. Except as provided for in Section 1808.7.5 and Figure 1808.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than 1 unit vertical in 1 unit horizontal (100-percent slope), the required setback shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope. The setback shall be that determined using Figure 1808.7.1 or 5 feet, whichever is larger.

Subsection 1809.3 is amended to read as follows:

1809.3 Stepped footings. The top surface of footings shall be level. The bottom surface of footings shall be permitted to have a slope not exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footing or where the surface of the ground slopes more than one unit vertical in 10 units horizontal (10-percent slope).

For structures assigned to Seismic Design Category D, E or F, the stepping requirement shall also apply to the top surface of grade beams supporting walls. Footings shall be reinforced with four #4 rebar. Two bars shall be place at the top and bottom of the footings as shown in Figure 1809.3.



STEPPED FOUNDATIONS

Figure 1809.3

Subsection 1809.4 is amended to read as follows:

1809.4 Depth and width of footings. Where a geotechnical report is not provided and the presence of expansive soils is unknown, the minimum depth of footings shall be 24 inches (610 mm) for exterior walls and 18 inches (458 mm) for interior bearing walls. Such footings shall be reinforced with two #4 rebar at the top and two #4 rebar at the bottom.

Exception: The minimum footing depth for unoccupied group U structures or patio structures associated with an R-3 occupancy shall be 12 inches (305 mm).

Otherwise, the minimum depth of footings below the undisturbed ground surface shall be 12 inches (305 mm). Where applicable, the requirements of section 1809.5 shall also be satisfied. The minimum width of footings shall be 12 inches (305 mm).

Section 1809.7 and Table 1809.7 are amended to read as follows:

1809.7 Prescriptive footings for light-frame construction. Where a specific design is not provided, concrete or masonry-unit footings supporting walls of light-frame construction shall be permitted to be designed in accordance with Table 1809.7. Prescriptive footings in Table 1809.7 shall not exceed two stories above grade plane for structures assigned to Seismic Design Category D, E or F.

TABLE 1809.7 PRESCRIPTIVE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION a, b, c, d, e

LIGH	I HERME COMBINCOTTO	1
NUMBER OF FLOORS		
SUPPORTED BY THE	WIDTH OF FOOTING	THICKNESS OF
FOOTING	(inches)	FOOTING (inches)
1	12	8
2	15	8

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

a. Depth of footings shall be in accordance with Section 1809.4.

- b. The ground under the floor shall be permitted to be excavated to the elevation of the top of the footing.
- c. See Section 1908 for additional requirements for concrete footings of structures assigned to Seismic Design Category C, D, E or F.
- d. For thickness of foundation walls, see Section 1807.1.6.
- e. Footings shall be permitted to support a roof addition to the stipulated number of floors. Footings supporting roof only shall be as required for supporting one floor.

Subsection 1809.12 is amended to read as follows:

1809.12 Timber footings. Timber footings shall not be permitted.

Subsection 1810.3.2.4 is amended to read as follows:

1810.3.2.4 Timber. Timber deep foundation elements shall not be permitted.

AMENDMENTS TO CHAPTER 19; CONCRETE, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 19 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection 1905.1.3 is amended to read as follows:

- **1905.1.3 ACI 318, Section 21.4.** Modify ACI 318, Section 21.4, by renumbering Section 21.4.3 to become 21.4.4 and adding new Sections 21.4.3, 21.4.5, 21.4.6 and 21.4.7 to read as follows:
 - 21.4.3 Connections that are designed to yield shall be capable of maintaining 80 percent of their design strength at the deformation induced by the design displacement or shall use Type 2 mechanical splices.
 - 21.4.4 Elements of the connection that are not designed to yield shall develop at least 1.5 Sy.
 - 21.4.5 In structures assigned to Seismic Design Category D, E or F, intermediate precast wall panels and wall piers shall be designed in accordance with Section 21.9 or 21.13.
 - 21.4.6 Wall piers not designed as part of a moment frame in buildings assigned to Seismic Design Category C shall have transverse reinforcement designed to resist the shear forces determined from 21.3.3. Spacing of transverse reinforcement shall not exceed 8 inches (203 mm). Transverse reinforcement shall be extended beyond the pier clear height for at least 12 inches (305 mm).

Exceptions:

- 1. Wall piers that satisfy 21.13.
- 2. Wall piers along a wall line within a story where other shear wall segments provide lateral support to the wall piers and such segments have a total stiffness of at least six times the sum of the stiffnesses of all the wall piers.
- 21.4.7 Wall segments with a horizontal length-to-thickness ratio less than 2.5 shall be designed as columns.

Subsection 1905.1.8 is amended to read as follows:

- 1905.1.8 ACI 318, Section 22.10. Delete ACI 318, Section 22.10, and replace with the following:
 - 22.10 Plain concrete in structures assigned to Seismic Design Category C, D, E or F.
 - 22.10.1 Structures assigned to Seismic Design Category C, D, E or F shall not have elements of structural plain concrete, except as follows:
 - (a) Concrete used for fill with a minimum cement content of two (2) sacks of Portland cement per cubic yard.
 - (b) Isolated footings of plain concrete supporting pedestals or columns are permitted for buildings of light frame construction, provided the projection of the footing beyond the face of the supported member does not exceed the footing thickness and the footing supports a

single roof or floor.

(c) Plain concrete footings supporting walls are permitted provided the footings have at least two continuous longitudinal reinforcing bars. Bars shall not be smaller than No. 4 and shall have a total area of not less than 0.002 times the gross cross-sectional area of the footing. A minimum of one bar shall be provided at the top and bottom of the footing. Continuity of reinforcement shall be provided at corners and intersections.

In detached one- and two-family dwellings three stories or less in height and constructed with stud-bearing walls, plain concrete footings with at least two continuous longitudinal reinforcing bars not smaller than No. 4 are permitted to have a total area of less than 0.002 times the gross cross-sectional area of the footing.

Section 1906.1 is amended to read as follows:

1906.1 Design. Structural plain concrete walls, footings and pedestals shall be designed for adequate strength in accordance with ACI 318, Section 22.4 through 22.8.

Exception: For Group R-3 occupancies and buildings or other occupancies less than two stories above grade plane of light-frame construction, the required footing thickness of ACI 318 is permitted to be reduced to 6 inches (152 mm), provided that the footing does not extend more than 4 inches (102 mm) on either side of the supported wall. This exception shall not apply to structural elements designed to resist seismic lateral forces for structures assigned to Seismic Design Category D, E or F.

AMENDMENTS TO CHAPTER 23; WOOD, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 18 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection 2304.9.1 is amended to read as follows:

2304.9.1 Fastener requirements. Connections for wood members shall be designed in accordance with the appropriate methodology in Section 2301.2. The number and size of fasteners connecting wood members shall not be less than that set forth in Table 2304.9.1. Staple fasteners in Table 2304.9.1 shall not be used to resist or transfer seismic forces in structures assigned to Seismic Design Category D, E or F.

Exception: Staples may be used to resist or transfer seismic forces when the allowable shear values are substantiated by cyclic testing and approved by the building official.

Subsection 2304.9.7 is amended to read as follows:

2304.9.7 Framing requirements. Wood columns and posts shall be framed to provide full end bearing. Alternatively, column-and-post end connections shall be designed to resist the full compressive loads, neglecting end-bearing capacity. Column-and-post end connections shall be fastened to resist lateral and net induced uplift forces. The minimum lateral design force for column and post end connections shall be 2% of the total axial compressive force acting on the column or post, but shall not be less than the force determined by analysis. The minimum lateral design force shall be assumed to act in any direction.

Subsection 2304.9.8 is added to read as follows:

2304.9.8 Nails, staples, or spikes in withdrawal. Nails, staples, or spikes shall not be used in withdrawal to resist the loads prescribed by this code.

Exceptions:

- 1. Fasteners connecting finish materials weighing 10 psf or less.
- 2. Fasteners connecting sheathing may be used to resist wind uplift loads.
- 3. Fasteners connecting roofing or cladding, when specifically approved by this code or by an approved listing or testing authority.
- 4. Fasteners connecting mechanical or electrical components weighing 20 lb or less, or in the case of a distributed system, 5 lb/ft or less.

Subsection 2304.11.7 is amended to read as follows:

2304.11.7 Wood used in retaining walls and cribs. Wood installed in retaining or crib walls shall be preservative treated in accordance with AWPA U1 (Commodity Specifications A or F) for soil and fresh water use. Wood shall not be used in retaining or crib walls for structures assigned to Seismic Design Category D, E or F.

Section 2305.4 is added to read as follows:

2305.4 Quality of Nails. Mechanically driven nails used in wood structural panel shear walls shall meet the same dimensions as that required for hand-driven nails, including diameter, minimum length and

minimum head diameter. Clipped head or box nails are not permitted in new construction. The allowable design value for clipped head nails in existing construction may be taken at no more than the nail-head-area ratio of that of the same size hand-driven nails.

Section 2305.5 is added to read as follows:

2305.5 Open-front structures. Open front structures utilizing wood-frame rigid diaphragms shall only be permitted for one-story buildings of occupancy group U.

Section 2306.2 is amended to read as follows:

2306.2.1 Wood structural panel diaphragms. Wood-frame diaphragms shall be designed and constructed in accordance with AF&PA SDPWS. Where panels are fastened to framing members with staples, requirements and limitations of AF&PA SDPWS shall be met and the allowable shear values set forth in Table 2306.2(1) or 2306.2(2) shall only be permitted for structures assigned to Seismic Design Category A, B, or C.

Exception: Allowable shear values where panels are fastened to framing members with staples may be used if such values are substantiated by cyclic testing and approved by the building official.

The allowable shear values in Tables 2306.2(1) and 2306.2(2) are permitted to be increased 40 percent for wind design.

Wood structural panel diaphragms used to resist seismic forces in structures assigned to Seismic Design Category D, E or F shall be applied directly to the framing members.

Exception: Wood structural panel diaphragms are permitted to be fastened over solid lumber planking or laminated decking, provided the panel joints and lumber planking or laminated decking joints do not coincide.

Tables 2306.2(3), 2306.2(4), and 2306.2(5) are added as follows:

UNBLOCKED Wood Structural Panel DIAPHRAGMS with Framing of Douglas-Fir Larch or Southern Pine Allowable (ASD) Unit Shear Capacities (pounds per foot) Table 2306.2(3)

	-		Т	_	Į.				Г			_	1					_
WIND	6 in. Nail Spacing at diaphragm boundaries and supporting members	Cases 2,3,4,5,6	252	280	300	335	175	195	225	252	237	265	252	280	265	300	300	335
	6 in. Nail S boundar	Case 1	335	370	400	447	230	260	300	335	322	357	335	370	357	405	400	447
SEISMIC	6 in. Nail Spacing at diaphragm boundaries and supporting members	Cases 2,3,4,5,6	180	200	215	240	125	140	160	180	170	190	180	200	190	215	215	240
SE	6 in. Nail Spa boundaries m	Case 1	240	265	285	320	165	185	215	240	230	255	240	265	255	290	285	320
Minimum	Nominal Width of Nailed Face at Supported Edges	and Boundaries (in.)	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Minimum	Nominal Panel Thickness	(in.)	3/8	95	15/32	70.00	3/8	210	3/8	200	7/16	77.70	15/32	20101	15/32	20101	19/32	70101
Minimum	Fastener Penetration in Framing	(in.)	1-3/8	200	1-1/2		1-1/4	1.77		•	1-3/8	2				1-10	7/1-1	
	Common Nail Size		Р8	3	10d		P _Q	3			84)				104	2	
Sheathing C Grade N				Structural I							Sheathing and	Single-Floor	(DOC PS1 and	PS2)				

a. See AF&PA SDPWS for the following: For general construction requirements see 4.2.6. For specific requirements see 4.2.7.1 for wood structural panel diaphragms. See Appendix A for common nail dimensions.

b. For species and grades of framing other than Douglas-Fir-Larch or Southern Pine, reduced nominal unit shear capacities shall be determined by multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G = Specific Gravity of the framing lumber from the NDS (Table 11.3.2A). The Specific Gravity Adjustment Factor shall not be greater than 1.

c. See AF&PA SDPWS Table 4.2B for Case definitions.

d. See AF&PA SDPWS Table 4.2C for the apparent shear stiffness values Ga.

BLOCKED Wood Structural Panel DIAPHRAGMS with Framing of Douglas-Fir Larch or Southern Pine Allowable (ASD) Unit Shear Capacities (pounds per foot) Table 2306.2(4)

						SEIS	SEISMIC				WIND	
		Minimum		Minimum	Nail !	Nail Spacing (in.) at diaphragm	1.) at diapl	ragm	Na	Nail Spacing (in.) at diaphragm	(in.) at di	aphragm
		Fastener	Minimum	Nominal Width	ponuda	boundaries (all cases), at continuous	ses), at co	ntinuous	ponuc	laries (all	cases), at	boundaries (all cases), at continuous
Sheathing	Common	Penetration	Nominal	of Nailed Face	panel edg	panel edges parallel to load (Cases 3 &	l to load ((Cases 3 &	panel e	dges para	llel to load	panel edges parallel to load (Cases 3 &
Grade	Nail Size	in Framing	Panel	at Adjoining	4), and at	4), and at all panel edges (Cases 5 & 6)	edges (Cas	ses 5 & 6)	4), and	at all pan	el edges (4), and at all panel edges (Cases 5 & 6)
	2775	Member or	Thickness	Panel Edges	9	4	2-1/2	2	9	4	2-1/2	2
		Blocking	(in.)	and Boundaries	Nail Spa	Nail Spacing (in.) at other panel edges	t other pa	nel edges	Nail S	pacing (in	.) at other	Nail Spacing (in.) at other panel edges
		(ii.)		(in.)		(Cases 1,	(Cases 1, 2, 3, & 4)			(Cases	(Cases 1, 2, 3, & 4)	4)
					9	9	4	3	9	9	4	3
	8	1-3/8	3/8	2	270	360	530	009	372	505	742	840
Structural I			S	က	300	400	009	675	420	260	840	945
	104	1-10	15/32	2	320	425	640	730	447	595	895	1022
	201	711.	20101	3	360	480	720	820	505	672	1007	1147
	64	1-1/4	3/8	2	185	250	375	420	260	350	525	587
	3	177	050	3	210	280	420	475	295	392	587	999
			3/8	2	240	320	480	545	335	447	672	762
			200	33	270	360	540	610	377	505	755	855
Sheathing	8	1-3/8	7/16	2	255	340	505	575	357	475	707	805
and Single-	3		77.10	8	285	380	570	645	400	532	797	902
Floor (DOC			15/32	2	270	360	530	009	372	505	742	840
PS1 and PS2)			20101	က	300	400	009	675	420	260	840	945
			15/32	2	290	385	575	655	405	540	805	917
	10d	1-10	ZCICY .	3	325	430	650	735	455	602	910	1030
			19/32	2	320	425	640	730	497	595	895	1022
				3	360	480	720	820	505	672	1007	1147

a. See AF&PA SDPWS for the following: For general construction requirements see 4.2.6. For specific requirements see 4.2.7.1 for wood structural panel diaphragms. See Appendix A for common nail dimensions.

multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G = Specific Gravity of the framing b. For species and grades of framing other than Douglas-Fir-Larch or Southern Pine, reduced nominal unit shear capacities shall be determined by lumber from the NDS (Table 11.3.2A). The Specific Gravity Adjustment Factor shall not be greater than 1.

c. See AF&PA SDPWS Table 4.2B for Case definitions.

d. See AF&PA SDPWS Table 4.2A for the apparent shear stiffness values G_n.

Blocked Wood Structural Panel DIAPHRAGMS with Framing of Douglas-Fir Larch or Southern Pine UTILIZING MULTIPLE ROWS OF FASTENERS (HIGH-LOAD DIAPHRAGMS) Allowable (ASD) Unit Shear Capacities (pounds per foot) Table 2306.2(5)

				-	_			_				_			_									_		
	ragm	gnonun	ases 3 &	es 2 & 0)	2-172	nel edges		3	1610	1805	1952	1757	2015	2505	1910	2190	2520	1415	1547	1672	1715	1917	2080	1870	2022	2190
2	ı.) at diaph	ses), at con	to load (C	Suges (Cas	7	t other par	2, 3, & 4)	4	1225	1407	1800	1350	1555	1967	1470	1695	2135	1070	1225	1582	1310	1512	1910	1427	1645	2072
ONIM	Nail Spacing (in.) at diaphragm	boundaries (all cases), at continuous	panel edges parallel to load (Cases 3 & A) and at all appeal advect (Cases 5 & A).	4), and at all panel edges (Cases 5 & 0)	4	Nail Spacing (in.) at other panel edges	(Cases 1, 2, 3, & 4)	4	1140	1280	1707	1232	1385	1847	1337	1497	2002	1015	1140	1520	1205	1350	1805	1310	1470	1960
	Nail	ponuda	panel edg	4), allu a	7	Nail Spa		9	847	086	1225	937	1092	1350	1022	1197	1470	735	847	1070	910	1057	1310	995	1155	1427
	ragm	nnuous	ases 3 &	(0.30 Ce)	7/1-7	el edges		3	1150	1290	1395	1255	1440	1790	1365	1565	1800	1010	1105	1195	1225	1370	1485	1335	1445	1565
SEISMIC	1.) at diaph	ses), at con	to load (Case	Lasto (Cast	-7	t other pan	2, 3, & 4)	4	875	1005	1285	965	1110	1405	1050	1210	1525	765	875	1130	935	1080	1365	1020	1175	1480
SEIS	Nail Spacing (in.) at diaphragm	boundaries (an cases), at continuous	panel edges parallel to load (Cases 3 & 4) and at all manel edges (Cases 5 & 6)	A Panel		Nail Spacing (in.) at other panel edges	(Cases 1, 2, 3, & 4)	4	815	915	1220	880	066	1320	955	1070	1430	725	815	1085	098	965	1290	935	1050	1400
	Nail		panel ed	, all a		Nail Spa		9	605	700	875	029	780	965	730	855	1050	525	605	765	650	755	935	710	825	1020
			Lines of	Fasteners					2	2	3	7	7	3	2	2	3	2	2	3	7	7	3	2	7	3
Minimim	Nominal	Width of	Nailed Face	at Adjoining	Fanel Edges	and	Boundaries	(in.)	3	4	4	က	4	4	က	4	4	m	4	4	e	4	4	3	4	4
		Minimum	Nominal	Fanel	Inickness	(in.)				15/32	1		19/32		Ž.	23/32			15/32			19/32			23/32	7
	Minimum Fastener Penetration in Framing Member or Blocking (in.)				ĺ,	•			1-1/2					i c				1-1/2								
	Common i Nail Size				6			,	10d									10d								
Sheathing C Grade N				Structural I						Sheathing and Single- Floor (DOC PS1 and PS2)																

a. See AF&PA SDPWS for the following: For general construction requirements see 4.2.6. For specific requirements see 4.2.7.1 for wood structural panel diaphragms. See Figure 4C for nailing diagrams. See Appendix A for common nail dimensions.

the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G = Specific Gravity of the framing lumber from the b. For species and grades of framing other than Douglas-Fir-Larch or Southern Pine, reduced nominal unit shear capacities shall be determined by multiplying NDS (Table 11.3.2A). The Specific Gravity Adjustment Factor shall not be greater than 1.

c. See AF&PA SDPWS Table 4.2B for Case definitions.

d. See AF&PA SDPWS Table 4.2B for the apparent shear stiffness values $G_{a\cdot}$

Section 2306.3 is amended to read as follows:

2306.3 Wood-frame shear walls. Wood-frame shear walls shall be designed and constructed in accordance with AF&PA SDPWS. Where Allowable Stress Design is used, table 2306.3(4) may be applied. Application of Table 4.3A of AF&PA SDPWS shall include the following:

- 1. Wood structural panel thickness for shear walls shall not be less than 3/8 inch thick. When 3/8-inch or 7/16-inch thick panels are used, studs shall not be spaced at more than 16 inches on center.
- 2. The maximum nominal unit shear capacities for 3/8 inch wood structural panels resisting seismic forces is 400 pounds per linear foot (plf).

Exception: Other nominal unit shear capacities may be permitted if such values are substantiated by cyclic testing and approved by the building official.

- 3. Where shear design values using Allowable Stress Design (ASD) exceed 350 plf or Load and Resistance Factor Design (LRFD) exceed 500 plf, all framing members receiving edge nailing from abutting panels shall not be less than a single 3-inch nominal member, or two 2-inch nominal members fastened together to transfer the design shear value between framing members. Wood structural panel joint and sill plate nailing shall be staggered at all panel edges. See Section 4.3.6.1 and 4.3.6.4.3 of AF&PA SDPWS for sill plate size and anchorage requirements.
- 4. Nails shall be placed not less than 1/2 inch in from the panel edges and not less than 3/8 inch from the edge of the connecting members for shear greater than 350 plf using ASD or 500 plf using LRFD. Nails shall be placed not less than 3/8 inch from panel edges and not less than 1/4 inch from the edge of the connecting members for shears of 350 plf or less using ASD or 500 plf or less using LRFD.

Application of Table 4.3B of AF&PA SDPWS shall not be permitted.

Application of Table 4.3C of AF&PA SDPWS shall not be permitted.

Shear walls using panels fastened with staples shall not be permitted.

Exception: Allowable shear values where panels are fastened to framing members with staples may be used if such values are substantiated by cyclic testing and approved by the building official.

Panels complying with ANSI/APA PRP-210 shall be permitted to use design values for Plywood Siding in the AF&PA SDPWS.

Section 2307.2 is added to read as follows:

2307.2 Wood-frame shear walls. Wood-frame shear walls shall be designed and constructed in accordance with Section 2306.3 as applicable.

Table 2306.3(4) is added as follows:

WOOD STRUCTURAL PANEL SHEAR WALLS with Framing of Douglas-Fir Larch or Southern Pine Allowable (ASD) Shear Capacities (pounds per foot) **TABLE 2306.3(4)**

	Minimum	Minimum			SE	SEISMIC			×	WIND	
Sheathing Material	Nominal Panel Thickness	Fastener Penetration in Framing Member or	Nail Size (common)	Pane]	I Edge Fas	Panel Edge Fastener Spacing (in.)	ng (in.)	Panel	Edge Fas	Panel Edge Fastener Spacing (in.)	ng (in.)
	(in.)	Blocking (in.)		9	4	3	2	9	4	3	2
	3/8			200	200	200	200**	322	505	645	855**
Wood Structural	7/16	1-3/8	p8	255	395*	205*	**049	357	552	707	937**
Panels – Structural I	15/32			280	430*	\$20*	730**	392	602	770	1022**
	15/32	1-1/2	10d	340	510*	**599	**028	475	715	930**	1217**
	3/8	1-1/4	p9	200	200	200	**007	280	420	545	715**
Wood Structural	3/8			200	200	200	200**	307	447	575	742**
Panels - Sheathing	7/16	1-3/8	×	240	350	450*	585**	335	490	630	820**
(DOC PS 1 or PS 2)	15/32		50	260	380*	*067	**049	365	532	685	**568
	15/32	1-17	104	310	460*	**009	**077	435	645	840**	1077**
	19/32	7/1-1	707	340	510*	**599	**028	475	715	930**	1217**
Plywood Siding	3/8	1-1/4	p9	140	200	200	**00	195	295	385	**202
gume sout t		1-3/8	p8	160	200	200	200**	225	335	435	575**
		Value of the latest and the latest a					Na.				

- * Framing members and blocking at adjoining panels shall be 3-inch nominal or greater where the required seismic shear capacity exceeds 350 plf.
 - ** Framing members and blocking at adjoining panels shall be 3-inch nominal or greater.
- Where panels are applied on both faces of a wall and nail spacing is less than 6 inches o.c. on either side, panel joints shall be offset to fall on different framing members, or framing shall be 3-inch nominal or thicker at adjoining panel edges and nails at all panel edges shall be staggered.
- Where the width of framing members is required to be 3-inch nominal, two 2-inch nominal members shall be permitted provided they are fastened together to transfer the shear between members. Ġ.
 - Where 3/8-inch or 7/16" sheathing is used, studs shall not be spaced more than 16 inches on center. Otherwise, studs shall not be spaced at more than 24 d. Where studs are spaced at 24 inches o.c., nailing to intermediate framing shall be spaced at 6 inches o.c. maximum. Where studs are spaced less than 24 inches on center.

inches o.c., nailing to intermediate framing shall be spaced at 12 inches o.c. maximum.

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Foundation anchor bolts shall have a steel plate washer under each nut not less than 0.229"x3"x3" in size. The hole in the plate washer shall be permitted to be diagonally slotted with a width of up to 3/16" larger than the bolt diameter and a slot length not to exceed 1-3/4", provided a standard cut washer is placed between the plate washer and the nut. See AF&PA SDPWS for additional information. ပ

- Allowable shear values for 7/16-inch sheathing are permitted to be increased to values shown for 15/32-inch sheathing with the same nailing provided panels are applied with long dimension across studs. ÷
 - Galvanized nails shall be hot dipped or tumbled.
- g. Galvanized nails shall be hot dipped or tumbled.

 h. Nails shall be placed not less than 1/2-inch in from the panel edges and not less than 3/8-inch from the edge of the connecting members for shear greater than 350 plf. Nails shall not be placed not less than 3/8-inch from panel edges and not less than 1/4-inch from the edge of the connecting members for shears of 350 plf or less.
- See AF&PA SDPWS for the following: For general construction requirements see 4.3.6. For specific requirements see 4.3.7.1 for wood structural panel shearwalls. See Appendix A for common nail dimensions.
- For species and grades of framing other than Douglas-Fir-Larch or Southern Pine, reduced nominal unit shear capacities shall be determined by multiplying the tabulated nominal unit shear capacity by the Specific Gravity Adjustment Factor = [1-(0.5-G)], where G = Specific Gravity of the framing lumber from the NDS (Table 11.3.2A). The Specific Gravity Adjustment Factor shall not be greater than 1.
 - See AF&PA SDPWS Table 4.3A for the apparent shear stiffness values Ga.

Subsection 2308.3.4 is amended to as follows:

Remove the exception to Subsection 2308.3.4.

Subsection 2308.9.3.1 is amended as follows:

2308.9.3.1 Alternative bracing. Any bracing required by Section 2308.9.3 is permitted to be replaced by the following:

In one-story buildings, each panel shall have a length of not less than 2 feet 8 inches (813 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with 15/32-inch-minimum-thickness (11.9 mm) wood structural panel sheathing nailed with 8d common nails spaced 3 inches on panel edges, 3 inches at intermediate supports. Two anchor bolts installed in accordance with Section 2308.6 shall be provided in each panel. Anchor bolts shall be placed at each panel outside quarter points. Each panel end stud shall have a tie-down device fastened to the foundation, capable of providing an approved uplift capacity of not less than 1,800 pounds (ASD) (8006 N). The tie-down device shall be installed in accordance with the manufacturer's recommendations. The panels shall be supported directly on a foundation or on floor framing supported directly on a foundation that is continuous across the entire length of the braced wall line. This foundation shall be reinforced with not less than one No. 4 bar top and bottom.

Where the continuous foundation is required to have a depth greater than 12 inches (305 mm), a minimum 12-inch by 12-inch (305 mm by 305 mm) continuous footing or turned down slab edge is permitted at door openings in the braced wall line. This continuous footing or turned down slab edge shall be reinforced with not less than one No. 4 bar top and bottom. This reinforcement shall be lapped 15 inches (381 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.

Subsection 2308.9.3.2, and Figure 2308.9.3.2 are amended as follows:

2308.9.3.2 Alternate bracing wall panel adjacent to a door or window opening. Any bracing required by Section 2308.9.3 is permitted to be replaced by the following when used adjacent to a door or window opening with a full-length header:

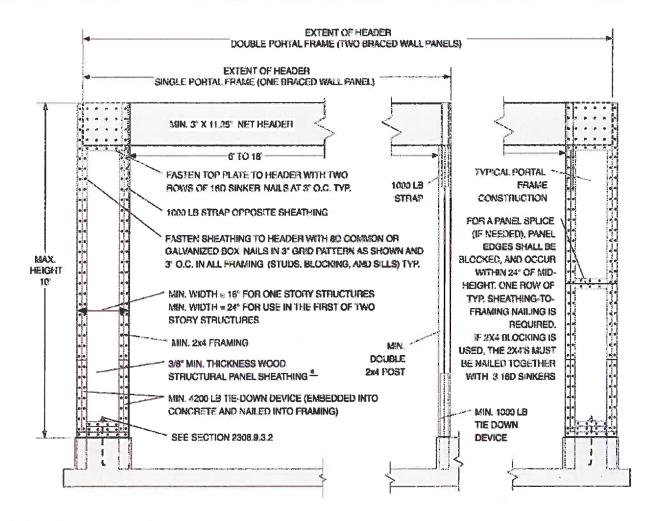
In one-story buildings, each panel shall have a length of not less than 16 inches (406 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with 15/32-inchminimum-thickness (11.9 mm) wood structural panel sheathing nailed with 8d common nails spaced 3 inches on panel edges, 3 inches at intermediate supports and in accordance with Figure 2308.9.3.2. The wood structural panel sheathing shall extend up over the solid sawn or glued-laminated header and shall be nailed in accordance with Figure 2308.9.3.2. A built-up header consisting of at least two 2 × 12s and fastened in accordance with Item 24 of Table 2304.9.1 shall be permitted to be used. A spacer, if used, shall be placed on the side of the built-up beam opposite the wood structural panel sheathing. The header shall extend between the inside faces of the first full-length outer studs of each panel. The clear span of the header between the inner studs of each panel shall be not less than 6 feet (1829 mm) and not more than 18 feet (5486 mm) in length. A strap with an uplift capacity of not less than 1,000 pounds (ASD) (4,400 N) shall fasten the header to the inner studs opposite the sheathing. One anchor bolt not less than 5/8 inch (15.9 mm) diameter and installed in accordance with Section 2308.6 shall be provided in the center of each sill plate. The studs at each end of the panel shall have a tie-down device fastened to the foundation with an uplift capacity of not less than 4,200 pounds (ASD) (18 480 N).

Where a panel is located on one side of the opening, the header shall extend between the inside face of

the first full-length stud of the panel and the bearing studs at the other end of the opening. A strap with an uplift capacity of not less than 1,000 pounds (ASD) (4400 N) shall fasten the header to the bearing studs. The bearing studs shall also have a tie-down device fastened to the foundation with an uplift capacity of not less than 1,000 pounds (ASD) (4400 N).

The tie-down devices shall be an embedded strap type, installed in accordance with the manufacturer's recommendations. The panels shall be supported directly on a foundation that is continuous across the entire length of the braced wall line. This foundation shall be reinforced with not less than one No. 4 bar top and bottom.

Where the continuous foundation is required to have a depth greater than 12 inches (305 mm), a minimum 12-inch by 12-inch (305 mm by 305 mm) continuous footing or turned down slab edge is permitted at door openings in the braced wall line. This continuous footing or turned down slab edge shall be reinforced with not less than one No. 4 bar top and bottom. This reinforcement shall be lapped not less than 15 inches (381 mm) with the reinforcement required in the continuous foundation located directly under the braced wall line.



For SI: 1 foot = 304.8 mm; 1 inch = 25.4 mm; 1 pound = 4.448 N.

FIGURE 2308.9.3.2
ALTERNATE BRACED WALL PANEL ADJACENT TO A DOOR OR WINDOW OPENING

Table 2308.12.4 is amended to read as follows:

TABLE 2308.12.4
WALL BRACING IN SEISMIC DESIGN CATEGORIES D AND E
(Minimum Percentage of Wall Bracing per each 25 Linear Feet of Braced Wall Line ^a)

CONDITION	SHEATHING TYPE ^b	$S_{DS} < 0.50$	$0.50 \le S_{DS} < 0.75$	$0.75 \le S_{DS} < 1.00$	S _{DS} > 1.00
	G-P ^C	43	59	75	100
One Story	S-W ^d	21	32	37	48

a. For structures assigned to Seismic Design Category D or E, sheathed on one face with 15:32-inch-minimum-thickness (11.9 mm) wood structural penel sheathing nailed with \$4 common nails spaced \$6 inches on panel edges, 12 inches at intermediate supports.

- a. Minimum length of panel bracing of one face of the wall for S-W sheathing shall be at least 4 feet long or both faces of the wall for G-P sheathing shall be at least 8 feet long; h/w ratio shall not exceed 2:1. For S-W panel bracing of the same material on two faces of the wall, the minimum length is permitted to be one-half the tabulated value but the h/w ratio shall not exceed 2:1 and design for uplift is required.
- b. G-P = gypsum board, portland cement plaster or gypsum sheathing boards; S-W = wood structural panels.
- c. Nailing as specified below shall occur at all panel edges at studs, at top and bottom plates and, where occurring, at blocking:

For 1/2-inch gypsum board, 5d (0.113 inch diameter) cooler nails at 7 inches on center; For 5/8-inch gypsum board, No 11 gage (0.120 inch diameter) cooler nails at 7 inches on center; For gypsum sheathing board, 1-3/4 inches long by 7/16-inch head, diamond point galvanized nails at 4 inches on center;

For gypsum lath, No. 13 gage (0.092 inch) by 1-1/8 inches long, 19/64-inch head, plasterboard at 5 inches on center;

For Portland cement plaster, No. 11 gage (0.120 inch) by 1-1/2 inches long, 7/16-inch head at 6 inches on center;

d. S-W sheathing shall be 15/32-inch thick nailed with 8d nails placed 3/8-inch from panel edges and spaced at 6-inches / 12-inches (edges / field).

Subsection 2308.12.5 is amended to read as follows:

2308.12.5 Attachment of sheathing. Fastening of braced wall panel sheathing shall not be less than that prescribed in Table 2308.12.4 or 2304.9.1. Wall sheathing shall not be attached to framing members by adhesives. Staple fasteners in Table 2304.9.1 shall not be used to resist or transfer seismic forces in structures assigned to Seismic Design Category D, E or F.

Exception: Staples may be used to resist or transfer seismic forces when the allowable shear values are substantiated by cyclic testing and approved by the building official.

All braced wall panels shall extend to the roof sheathing and shall be attached to parallel roof rafters or blocking above with framing clips (18 gauge minimum) spaced at maximum 24 inches (6096 mm) on center with four 8d nails per leg (total eight 8d nails per clip). Braced wall panels shall be laterally braced at each top corner and at maximum 24 inches (6096 mm) intervals along the top plate of discontinuous vertical framing.

AMENDMENTS TO CHAPTER 25; GYPSUM BOARD AND PLASTER, OF THE CALIFORNIA BUILDING CODE

The following sections of Chapter 25 of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection 2512.1.2 is amended to read as follows:

2512.1.2 Weep screeds. A minimum 0.019-inch (0.5mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 3 ½ inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.

AMENDMENTS TO APPENDIX G; FLOOD-RESISTANT CONSTRUCTION, OF THE CALIFORNIA BUILDING CODE

The following sections of Appendix G of the California Building Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection G101.4 is amended to read as follows:

G101.4 Violations. Any violation of a provision of this chapter or the City of Santa Clarita Flood Plain Ordinance, or failure to comply with a permit or variance issued pursuant to this chapter or any requirement of this chapter, shall be subject to the provisions of Section 114 of this code.

Subsection G102.2 is amended to read as follows:

G102.2 Establishment of flood hazard areas. Flood hazard areas are established as outlined in Section 1612.3 of this code.

Subsection G104.1 is amended to read as follows:

G104.1 Required. Any person, owner or authorized agent who intends to conduct any development in a flood hazard area shall first make application to the building official for such work. No permit shall be issued until the applicant demonstrates they have fully complied with all applicable Federal, State, and local requirements pursuant to such work within a flood hazard area.

Subsection G301.1 is amended to read as follows:

G301.1 General. Any subdivision proposal or other proposed new development in a flood hazard area shall be reviewed to assure that:

(no change to the three items listed under this subsection)

Subsection G901.1 is amended to read as follows:

G901.1 Temporary Structures. A temporary structure, for the purposes of this section, is a structure that is erected for a period of less than 180 days. Temporary structures and temporary storage in floodways are not permitted in the City of Santa Clarita.

Subsection G901.2 and G901.3 are deleted in their entirety.

Chapter 18.11 AMENDMENTS TO CHAPTER 1 DIVISION II; ADMINISTRATION, OF THE CALIFORNIA RESIDENTIAL CODE

The following sections of Chapter 1 Division II of the California Residential Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Section R101.1 is hereby amended to read as follows:

R101.1 Title. These regulations, including all duly adopted local amendments, shall become a part of the City of Santa Clarita Building Code and may also be referred to as the Santa Clarita Residential Code for One- and Two-family Dwellings, and shall hereinafter be referred to as 'this code'.

Section R102.4.3 is hereby added to read as follows:

R102.4.3 Local amendments. The amendments to Chapter 1, Division II *Scope and Administration* of the California Building Code, as adopted at the local level, shall also apply to projects regulated by the California Residential Code at the local level and shall be considered part of this code.

Section R102.7.1 is hereby amended to read as follows:

R102.7.1 Additions, Alterations, or Repairs. Additions, alterations, or repairs to any structure shall conform to the requirements for a new structure without requiring the existing structure to comply with all of the requirements of this code except as outlined in subsections R102.7.1.1 and R102.7.1.2. Additions, alterations, or repairs shall not cause an existing structure to become unsafe or adversely affect the performance of the building.

Subsections R102.7.1.1 and R102.7.1.2 are hereby added to read as follows:

R102.7.1.1 Substantial improvement. Where the proposed work includes any demolition, alteration, or repair of more than 50% of the existing building or component of the building, the remaining portion of the building or building component shall be upgraded to comply with the structural provisions, as well as fire and life safety provisions of this code in such cases where it is determined by the Building Official that the existing portions of the building are substantially deficient or pose a significant hazard.

When determining the percentage of demolition, alteration or repair, one of the following methods shall be applied, at the discretion of the Building Official:

- a. A comparison of the square footage, lineal footage, or number of components or fixtures of the proposed demolition, alteration or repair to the total square footage, lineal footage, or number of components or fixtures, as may be applicable.
- b. A comparison of the valuation of the proposed demolition, alteration or repair to the valuation of the existing building.

The provisions of this section shall be cumulative over any 12 month period.

R102.7.1.2 Substantial addition. Where the proposed work includes addition of new floor area that is greater than 100% the existing building floor area, the existing portion of the building shall be upgraded to comply with the structural provisions, as well as fire and life safety provisions of this

code in such cases where it is determined by the Building Official that the existing portions of the building are substantially deficient or pose a significant hazard.

When determining the floor area of the existing building, the area of the garage or other unconditioned spaces shall not be included in the total area.

The provisions of this section shall be cumulative over any 12 month period.

Subsection R105.2 is amended to read as follows:

R105.2 Work Exempted from Permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of the City of Santa Clarita including such requirements as may be established by any City department or division or the requirements of any other governing agency. Unless otherwise exempted, separate plumbing, electrical, and mechanical permits will be required for any such items exempted herein.

For a complete list of work that is exempt from a permit refer to Section 18.02.040 of the SCMC amending section 105.2 Work Exempted from Permit in the 2013 California Building Code.

Subsection 105.2.2 is amended to read as follows:

105.2.2 Repairs and Maintenance. Application or notice to the Building Official is not required for ordinary maintenance or repairs to structures. In no case shall the repair or maintenance work create an unsafe condition or violate any provision of State code. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements.

For a complete list of maintenance or repairs that are exempt from a permit, refer to Section 18.02.050 of the SCMC amending subsection 105.2.2 Repairs and Maintenance in the 2013 California Building Code.

AMENDMENTS TO CHAPTER 3; BUILDING PLANNING, OF THE CALIFORNIA RESIDENTIAL CODE

The following sections of Chapter 3 of the California Residential Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Subsection R301.1.3.2 is amended to read as follows:

R301.1.3.2 Woodframe structures. The building official shall require construction documents to be approved and stamped by a California licensed architect or engineer for all dwellings of woodframe construction more than one story in height or with a basement.

Subsection R301.1.4 is added to read as follows:

R301.1.4 Seismic design provisions for buildings constructed on or into slopes steeper than one unit vertical in three units horizontal (33.3 percent slope). The structural design and construction of new buildings and additions to existing buildings when constructed on or into slopes steeper than one unit vertical in three units horizontal (33.3 percent slope) shall comply with the California Building Code.

Table R301.2(1) is amended as follows:

GROUND	WIN	D DESIGN	SEISMIC	SUBJECT TO FROM			WINTER	ICE	EI 00D	AIR	MEAN
SNOW LOAD		Topographic effects ^k	DESIGN CATEGORY	Weathering*	Frost fine depth ^b	Termite	DESIGN	SARRIER UNDERLAYMENT REQUIRED ^b	FLOOD HAZARDS®	FREEZING INDEX ⁱ	ANNUAL TEMP ^j
0	85	NONE	D ₂ , E	NEGLIGIBLE	12"	MODERATE - SEVERE	40 F	NO	note g	0	66 F

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.
- b. The frost line depth may require deeper footings than indicated in Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
- e. Temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official.
- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
- g. Date of entry into the National Flood Insurance Program: April 25, 1980. Date of the Flood Insurance Study: April 25, 1980. Panel numbers and dates of all currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended: all panels for Community 060729. h. In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."

- i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html.
- j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html.
- k. In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

Table R301.2.2.1.1 is amended as follows:

TABLE R301.2.2.1.1
SEISMIC DESIGN CATEGORY DETERMINATION

CALCULATED S _{DS}	SEISMIC DESIGN CATEGORY
$S_{DS} \le 0.17g$	A
$0.17g < S_{DS} \le 0.33g$	В
$0.33g < S_{DS} \le 0.50g$	С
$0.50g < S_{DS} \le 0.67g$	D ₀
$0.67g < S_{DS} \le 0.83g$	D_1
$0.83g < S_{DS} \le 1.00g$	D_2
1.00g < S _{DS}	Е

Subsection R301.2.2.2.5 is amended as follows:

Remove the exception to condition 1.

Condition 3 is amended to read as follows:

3. When the end of a braced wall panel occurs over an opening in the wall below.

Remove the exception to condition 3.

Remove the exceptions to condition 5.

Subsection R301.2.2.3.8 is added as follows:

R301.2.2.3.8 Anchorage of Mechanical, Electrical, or Plumbing Components and Equipment.

Mechanical, electrical, or plumbing components and equipment shall be anchored to the structure. Anchorage of the components and equipment shall be designed to resist loads in accordance with the International Building Code and ASCE 7, except where the component is positively attached to the structure and flexible connections are provided between the component and associated ductwork, piping, and conduit; and either

- 1. The component weighs 400 lb (1,780 N) or less and has a center of mass located 4 ft or less above the supporting structure; or
- 2. The component weighs 20 lb (89N) or less or, in the case of a distributed system, 5 lb/ft or less.

Chapter 18.13 AMENDMENTS TO CHAPTER 4; FOUNDATIONS, OF THE CALIFORNIA RESIDENTIAL CODE

The following sections of Chapter 4 of the California Residential Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Section R401.1 is amended to read as follows:

R401.1 Application. The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by Table R301.2(1) shall meet the provisions of Section R322. Wood foundations shall not be permitted.

Subsection R403.1.2 is amended to read as follows:

R403.1.2 Continuous footing in Seismic Design Categories D_0 , D_1 and D_2 . The braced wall panels at exterior walls of buildings shall be supported by continuous footings. All required interior braced wall panels in buildings shall be supported by continuous footings.

Subsection R403.1.3 is amended to as follows:

Remove the exception to subsection R403.1.3.

Subsection R403.1.4 is amended to read as follows:

R403.1.4 Minimum Depth. Where a geotechnical report is not provided and the presence of expansive soils is unknown, the minimum depth of footings shall be 24 inches (610 mm) for exterior walls and 18 inches (458 mm) for interior bearing walls. Such footings shall be reinforced with two #4 rebar at the top and two #4 rebar at the bottom.

Exception: The minimum footing depth for unoccupied group U structures or patio structures associated with an R-3 occupancy shall be 12 inches (305 mm).

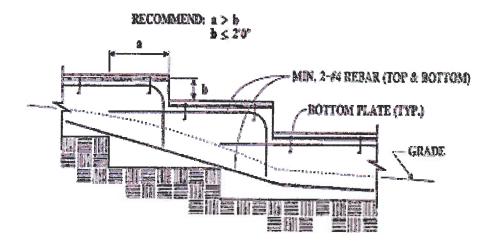
Otherwise, the minimum depth of footings below the undisturbed ground surface shall be 12 inches (305 mm). Where applicable, the depth of footings shall also conform to Sections R403.1.4.1 through R403.1.4.2.

Subsection R403.1.5 is amended to read as follows:

R403.1.5 Slope. The top surface of footings shall be level. The bottom surface of footings shall be permitted to have a slope not exceeding one unit vertical in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footing or where the surface of the ground slopes more than one unit vertical in 10 units horizontal (10-percent slope).

Stepped footings shall be reinforced with two #4 rebar at the top and two #4 rebar at the bottom.as shown in Figure R403.1.5.

FIGURE R403.1.5



STEPPED FOUNDATIONS

Subsection R403.1.6.2 is added as follows:

R403.1.6.2 Light-gage mudsill anchors. Light-gage mudsill anchors which are intended to be bent upon installation shall not be used to anchor braced walls. Where light-gage anchors are used at exterior non-braced walls, they shall be fully protected by the exterior weather barrier assembly or by an approved corrosion-resistant coating.

Subsection R404.2 is amended to read as follows:

R404.2 Wood foundation walls. Wood foundation walls shall not be permitted.

Chapter 18.14 AMENDMENTS TO CHAPTER 5; FLOORS, OF THE CALIFORNIA RESIDENTIAL CODE

The following sections of Chapter 5 of the California Residential Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

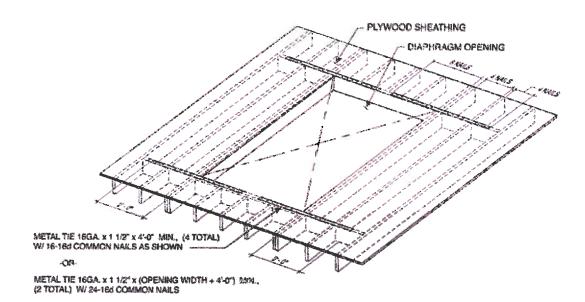
Section R501.1 is amended to read as follows:

R501.1 Application. The provisions of this chapter shall control the design and construction of the floors for all buildings including the floors of attic spaces used to house mechanical or plumbing fixtures and equipment. Mechanical or plumbing fixtures and equipment shall be attached (or anchored) to the structure in accordance with Section R301.2.2.3.8.

Subsection R503.2.4 is added to read as follows:

R503.2.4 Openings in horizontal diaphragms. Openings in horizontal diaphragms with a dimension perpendicular to the joist that is greater than 4 feet (1.2 m) shall be constructed in accordance with Figure R503.2.4.

Figure R503.2.4 is added:



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

Biockings shall be provided beyond headers.

- Metal ties not less than 0.058 inch [1.47 mm (16 galvanized gage)] by 1.5 inches (38 mm) wide with eight 16d common nails on each side of the header-joist intersection. The metal ties shall have a minimum yield of 33,000 psi (227 MPa).

 Openings in diaphragms shall be further limited in accordance with Section R301.2.2.2.5.

FIGURE R503,2.4 OPENINGS IN HORIZONTAL DIAPHRAGMS

Chapter 18.15 AMENDMENTS TO CHAPTER 6; WALL CONSTRUCTION, OF THE CALIFORNIA RESIDENTIAL CODE

The following sections of Chapter 6 of the California Residential Code, as adopted by Chapter 18.01 hereof, are added, deleted, or amended as follows:

Exception of subsection R602.3.2 is amended as follows:

Remove the exception to subsection R602.3.2.

Table R602.3(1) is amended as follows:

Add new footnote k to Table R602.3(1)

k. Staples shall not be permitted for braced wall sheathing.

Table R602.3(2) is amended as follows:

Add new footnote h to Table R602.3(2)

h. Staples shall not be permitted for roof, floor, or wall sheathing.

Table R602.10.3(3) is amended as follows:

TABLE R602.10.3(3)

BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY (AS A FUNCTION OF BRACED WALL LINE LENGTH)

15 P	SOIL CLASS D WALL HEIGHT - 1 IO PSF FLOOR DEAD SF ROOF/CEILING D ED WALL LINE SPACE	O FT) LOAD)EAD LOAD	rhimman to	OTAL LEISGTH (feet) ALONG EACH	OF BRACED WALL I BRACED WALL LIN	PANELS REQUIRED
Seisonic Design Category (SDC)	Story Location	Braced Wall Line Length	fdethod LIB	Mothods ^d GB, PCP	Method WSP	Continuous Sheathing
		10	NP	8	2.5	2.1
		20	NP	16	5.0	4.3
		30	NP	24	7.5	6.4
		40	NP	32	10.0	8.5
		50	NP	40	12.5	10.6
		10	NP	NP	5.5	4.7
SDC D	<u>, A</u> [20	NP	NP	11.0	9.4
SDC D ₂		30	NP	NP	16.5	14.0
		4G	NP	NP	22.0	18.7
		50	NP	NP	27.5	23,4
		10	NP	NP	NP	NP
		20	NP	NP	NP	NP
		30	NP	NP	NP	NP
		40	NP	NP	NP	NP
		50	NP	NP	NP	NP

<sup>a. Wall bracing lengths are based on a soil site class "D."
b. Foundation cripple wall panels shall be braced in accordance with section R602.10.9.
c. Methods of bracing shall be as described in Sections R602.10.2. RS02.10.4, and RS02.10.5.
d. Methods GB and PCP braced wall panel hAv ratio shall not exceed 1:1. Methods DWB, SFB, PBS, and HPS are not permitted</sup>

Table R602.10.4 is amended as follows:

TABLE R602.10.4 INTERMITTENT BRACING METHODS

WSP	Wood structural panel (see Section R604)	15/32"	8d common (2-1/2° x 0.131°) nalls at 6" (panel edges) and 12" (intermediate), 3/8" edge distance to panel edge.
GB	Gypsum board	1/2.	Nails or screws at 7" spacing at panel edges including top and bottom plates; for all braced wall panel locations for exterior cheathing nail or screw size, see Table R602.3(1); for interior gypsum board nail or screw size, see Table R702.3.5
PCP	Portland cement plaster	See Section R703.6 For maximum 16" stud spacing	1 ¹ / ₂ °, 11 gage, ⁷ / ₁₆ ° head nails at 6° spacing

CONTINUOUS SHEATHING METHODS

METHOD	MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA
CS-WSP	Wood structural panel	15/32"		8d common (2" × 0.113") nails at 6" spacing (panel edges) and at 12" spacing (intermediate supports)
CS-G	Wood structural panel adjacent to garage openings and supporting roof load only ^{e,b}	15/32'		See Method CS-WSP
CS-PF	Continuous portal frame	See Section R602.10.4.1.1		See Section R602.10.4.1.1

a. Applies to one wall of a garage only.b. Roof covering dead loads shall be 3 psf or less.

Table R602.10.5 is amended as follows:

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

METHOD			MIN	MUM LENG (inches)			
(See Table R602 10.4)		Wall Height					CONTRIBUTING LENGTH (Inches)
		2 test	9 feet	in feet	11 feet	12 feet	
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP		48	48	48	53	58	Actual ^b
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
LIB		55	62	69	NP	NP	Actual ⁶
ABW	SDC A, B and C, wind speed < 110 mph	28	32	34	38	42	48
	SDC D _a , D _i and D _a wind speed < 110 mph	32	32	34	NP	MP	
PFM	Supporting roof only	16 24	16-24	1624	18 24	20-24	48
	Supporting one story and roof	24	24	24	27°	29°	48
PFG		24	27	30	334	36 ^a	£.5 × Actual*
CS-G		24	27	30	33	36	Actual ^b
CS-PF		+6- 24	18 24	20 -24	24	24"	Actual ^b
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						
	≤ 64	24	27	30	33	36	Actecit
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100	_	44	40	38	38	
	104	240	49	43	40	39	
	108		54	46	43	41	
	112	-		50	45	43	
	116		-19	55	48	45	
	120			60	52	48	
	124				56	51	
	128		-73	_	61	54	
	132	Comple			66	.58	
	136				(6-46)	62.	
	140		-	-4	-	66	
	144					72	

For Si: 1 inch = 25.4 mm, 1 font = 304.8 mm, 1 mile per hour = 0.447 m/s.

MP = Not Permitted.

- a. Linear interpolation shall be permitted.
- b. Use the actual length when it is greater than or equal to the minimum length.

- c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height may be increased to 12 feet with pony wall.
 d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall.
 c. Maximum opening height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height may be increased to 12 feet with pony wall.

Figure R602.10.6.1 is amended as follows:

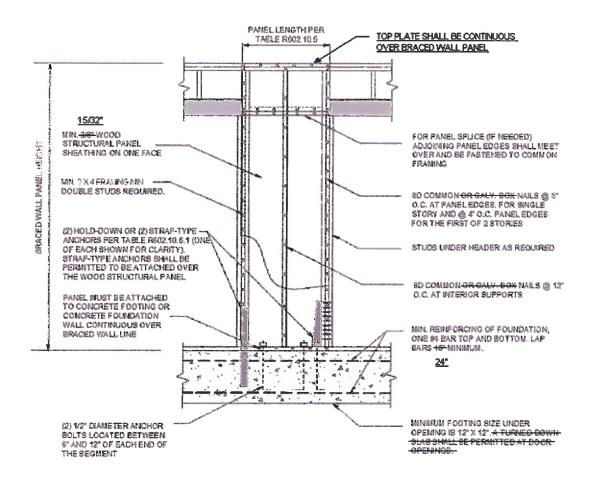


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

Figure R602.10.6.2 is amended as follows:

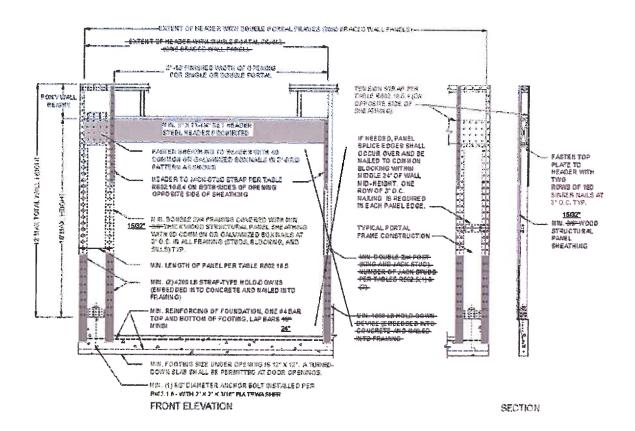
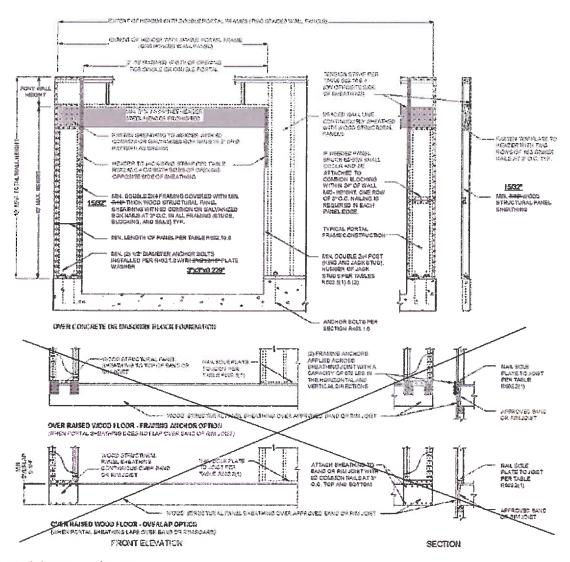


FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS
AT DETACHED GARAGE DOOR OPENINGS

Figure R602.10.6.4 is amended as follows:



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF-CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

Subsection R602.10.9.1 is deleted in its entirety.

Subsection R606.2.4 is amended to read as follows:

R606.2.4 Parapet walls. Masonry parapet walls shall be reinforced in accordance with Section R606.12.

Subsection R606.12.2.2.3 is amended to read as follows:

R606.12.2.2.3 Reinforcement of requirements for masonry elements. Masonry elements listed in Section R606.12.2.2.2 shall be reinforced in either the horizontal or vertical direction as shown in Figure R606.11(3) and in accordance with the following:

- 1. Horizontal reinforcement. Horizontal joint reinforcement shall consist of at least one No. 4 bar spaced not more than 48 inches (1219 mm). Horizontal reinforcement shall be provided within 16 inches (406 mm) of the top and bottom of these masonry elements.
- 2. Vertical reinforcement. Vertical reinforcement shall consist of at least one No. 4 bar spaced not more than 48 inches (1219 mm). Vertical reinforcement shall be within 16 8 inches (406mm) of the ends of masonry walls.

Chapter 18.16 AMENDMENTS TO CHAPTER 8; ROOF-CEILING CONSTRUCTION, OF THE CALIFORNIA RESIDENTIAL CODE

The following section of Chapter 8 of the California Residential Code, as adopted by Chapter 18.01 hereof, is added as follows:

Subsection R803.2.4 is added to read as follows:

R803.2.4 Openings in horizontal diaphragms. Openings in horizontal diaphragms shall conform to Section R503.2.4.

Chapter 18.17 AMENDMENTS TO CHAPTER 10; CHIMNEYS AND FIREPLACES, OF THE CALIFORNIA RESIDENTIAL CODE

The following section of Chapter 10 of the California Residential Code, as adopted by Chapter 18.01 hereof, is amended as follows:

Subsection R1001.3.1 is amended to read as follows:

R1001.3.1 Vertical reinforcing. For chimneys up to 40 inches (1016 mm) wide, four No. 4 continuous vertical bars adequately anchored into the concrete foundation shall be placed between wythes of solid masonry or within the cells of hollow unit masonry and grouted in accordance with Section R609. Grout shall be prevented from bonding with the flue liner so that the flue liner is free to move with thermal expansion. For chimneys more than 40 inches (1016 mm) wide, two additional No. 4 vertical bars adequately anchored into the concrete foundation shall be provided for each additional flue incorporated into the chimney or for each additional 40 inches (1016 mm) in width or fraction thereof.

CITY ELECTRICAL CODE

Adoption of the City of Santa Clarita Electrical Code Including local amendments to the State adopted Codes As allowed by State law

Effective date: January 1, 2014

Table of Contents

CITY ELECTRICAL CODE

Chapters:

19.01	Adoption of the City Electrical Code
19.02	Amendments to CEC Chapter 1; General
19.03	Amendments to CEC Chapter 6; Special Equipment
19.04	Amendments to CEC Annex H (Article 80); Administration and Enforcement

Chapter 19.01 ADOPTION OF THE CITY ELECTRICAL CODE

There is adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Part 3, further described and referred to as the 2013 California Electrical Code published by the California Building Standards Commission and based on the National Electric Code®, 2011 Edition, prepared by the National Fire Protection Association.

Adoption of said code shall include those articles, sections, and annexes requiring enforcement by the local building department and as further amended by the City of Santa Clarita with provisions intended to address local climatic, geologic, and/or topographic conditions, as permitted by State law. Adoption of said code shall include adoption of the following annexes: Annex A, *Product Safety Standards*, Annex B, *Application Information for Ampacity Calculation*, Annex C, *Tables*, Annex D, *Examples*, Annex E, *Types of Construction*, Annex F, *Critical Operations power Systems*, and Annex H, *Administration*.

Such code shall be and become the Santa Clarita Electrical Code, regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance of electrical systems, equipment and appliances. The provisions of said code shall provide for the issuance of permits and collection of fees thereof, and providing penalties for violation of such Code.

The City Electrical Code shall become effective for new permit applications received by the City on or after January 1, 2014.

At least one copy of the City Electrical Code has been deposited in the office of the City Clerk and shall be at all times maintained by the clerk for use and examination by the public.

Chapter 19.02 AMENDMENTS TO CHAPTER 1; GENERAL, OF THE CALIFORNIA ELECTRICAL CODE

The following article of Chapter 1 of the California Electrical Code, as adopted by Chapter 19.01 hereof, is amended as follows:

Article 100 Definitions is amended to add the following definitions and declarations:

- Apartment House. Any building or portion thereof, which is designed, built, rented, leased, let or hired
 out to be occupied, or which is occupied as the home or residence of three or more families living
 independently of each other and doing their own cooking in said building, and shall include flats and
 apartments.
- Approved. Acceptable to the Building Official.
- Building. Any structure built for the support or shelter of persons, animals, chattels, or property of any kind.
- **Dwelling.** Any building or any portion thereof which is not an "Apartment House" or a "Hotel" as defined in this Code, which contains one or more "Apartments" or "Guest Rooms," used, intended or designed to be built, used, rented, leased, let or hired out to be occupied, or which are occupied for living purposes.
- **Dwelling Unit.** One or more habitable rooms which are occupied or which are intended or designed to be occupied by one family with facilities for living, sleeping, cooking and eating.
- Electric or electrical wiring. The installation or the alteration of any material, fixture, device, appliance or equipment in or on any building, structure or premises, used or designed or intended to be used to generate, transmit, transform or utilize electric energy.
- Grade (adjacent Ground Elevation). The lowest point of elevation of the finished surface of the ground, paving or sidewalk within the area between the building and the property line or, when the property line is more than five feet from the building, between the building and a line five feet from the building.
- Hotel. Any building containing six or more rooms intended or designed to be used, or which are used, rented or hired out to be occupied, or which are occupied for sleeping purposes by guests.
- Person. An individual human being, a firm, partnership or corporation, his or their heirs, executors, administrators, assignees, officers or agents; the City of Santa Clarita, and any local agency as defined in Section 53090 of the Government Code, or officer thereof.
- Service. For purposes of interpreting the National Electrical Code (NEC), each service drop or lateral to a building shall be considered one service. For purposes of determining the fees to be paid, each service and piece of service equipment shall be subject to the fees set forth in section 19.04.080.
- Service Equipment. One or more fused switches, enclosed circuit breakers, panelboards, switchboards, and/or switchgear supplied by one service and intended to constitute the main control and means of cut-off of the electrical supply. One service may include several pieces of service equipment. Permit fees shall be paid for each piece of service equipment.
- Special Permission. Written consent of the Building Official.
- Tenant Improvement (Electrical). Electrical work that alters or adds to the wiring system of an existing tenant space, whether previously occupied or not, in a building that has previously passed final electrical inspection regardless of whether the building is a fully developed building or only a shell.

Chapter 19.03 AMENDMENTS TO CHAPTER 6 OF THE CALIFORNIA ELECTRICAL CODE

The following section of Chapter 6, Special Equipment, of the California Electrical Code, as adopted by Chapter 19.01 hereof, is added as follows:

Section 690.19 is added to read as follows:

690.19 Disconnecting Means for Multiple Arrays. Where more than one array is combined to form a single output rated more than 50 volts and/or 10 amperes, a disconnecting means rated for the output shall be installed immediately adjacent to the combiner box on the output side.

EXCEPTION No. 1: If the combiner box is located adjacent to the inverter(s), the disconnecting means as stated above shall not be required.

EXCEPTION No. 2: DC disconnect is not required on the output side of a combiner box for R-3 and U occupancies accessory to R-3 for rooftop installations.

Chapter 19.04 AMENDMENTS TO ANNEX H (ARTICLE 80) OF THE CALIFORNIA ELECTRICAL CODE

The following sections of Annex H, Article 80, of the California Electrical Code, as adopted by Chapter 19.01 hereof, are added, deleted, or amended as follows:

Section 80.7 is deleted in its entirety.

Section 80.13 is amended to read as follows:

80.13 Authority. There is established within the City of Santa Clarita a division in the Public Works Department to be known as the Building and Safety Division under the administrative and operational control of the City Building Official hereinafter referred to as the Building Official. Where used in this article, the term authority having jurisdiction shall be construed to mean the City Building Official of the City of Santa Clarita.

This Code shall be administered and enforced by the authority having jurisdiction designated by the governing body as follows.

(Provisions 1 through 16 under this section remain the same)

Subsection 80.13(17) is added to read as follows:

(17) A written application shall be submitted for a proposed alternate material, method of construction or waiver together with a fee established by the City Council. The details of any action granting an alternate material or method of construction shall be noted in the files of the Building and Safety Division of the City.

Section 80.15 is amended in its entirety to read as follows:

80.15 Electrical Board. The electrical board shall be the Appeals Board as established under the provisions of the Santa Clarita Building Code Section 18.02.200, hereinafter designated as the Board.

Subsection 80.19(A)(3) is added to read as follows:

(3) The Building Official may refuse to issue a permit for temporary or permanent service when there is no apparent legally permitted use for the service. In determining whether a proposed use is legally permitted, the Building Official may consider not just the provisions of the Electrical Code but all applicable statutes, ordinances, rules and regulations.

Subsection 80.19(C) is amended in its entirety to read as follows:

80.19(C) Issuance of Permits. The Building Official is authorized to issue a permit to the applicant for the work described in the application and plans filed therewith, when it is determined that all of the following items comply:

- 1. The work conforms to the requirements of this code and other pertinent laws and ordinances.
- The required clearances from all other agencies have been obtained.
- 3. The appropriate fees specified by this code have been paid.

When a permit is issued and plans and/or specifications have been required to be provided, the Building Official shall endorse in writing or stamp upon the plans and/or specifications "APPROVED." Such approved plans and specifications shall not be changed, modified or altered without authorizations from the Building Official, and design professional of record when applicable, and all work regulated by this code shall be done in accordance with the approved plans, however the approval of the plans shall not be construed as a waiver of any requirement of this code, or any other law or ordinance, unless specific documentation such as that required by Subsections 80.13 (15) and (16) is provided. The issuance of a permit shall not be deemed to certify that the site of the described work is safe.

No permit shall be required for the following electrical work:

- 1. Minor repair work such as the replacement of lamps, switches, receptacle devices, sockets, taping bare joints and the like, or the connection of portable motor and appliances to suitable receptacles which have been permanently installed.
- 2. The temporary wiring for temporary theater, motion picture or television stage sets.
- 3. The repair of fixed motors, transformers, apparatus, or appliances.
- 4. Temporary holiday decorative lighting provided no such lighting is 'hard wired' directly into an electric panel or sub-panel.
- 5. The installation of temporary wiring for testing or experimental purposes within suitable facilities.
- 6. Repair or replacement of overcurrent devices.
- 7. Portable generators, motors, appliances, tools, power outlets, and other portable equipment connected by means of a cord or cable having an attachment plug.
- 8. The installation by Southern California Edison Company of radio-controlled relays on privately owned air conditioning and agricultural irrigation pumping equipment in the company's pilot program of energy conservation through electrical load management, entitled "Air Conditioner Cycling and Agricultural and Pumping Interruptible Programs" provided that:
 - a. The relays shall be tested and labeled by Underwriters' Laboratories, Inc.
 - b. The Building Official shall approve of specifications for the installation of the relays.
- c. The relays shall be installed and maintained by Southern California Edison Company or its contractors.
- d. The Southern California Edison Company shall make available for random inspection, upon request of and by the City, designated relay installations to ensure code compliance.
- 9. Private telephone, intercom, sound and communication systems, data, security alarm, and television cable in single family dwellings; provided, however, that a permit shall be obtained for any added circuits supplying the power supplies required by the above systems.
- 10. Nonresidential communication, telephone, and data cabling systems. Nonresidential security systems may be exempted when such system is independent of the fire protection/alarm system.
- 11. Exemption for Utilities. The provisions of this code shall not apply to any electrical work performed by or for any electrical corporation, telephone corporation, telegraph corporation, railroad corporation or street railroad corporation on or with any electrical equipment owned or controlled and operated or used by, and for the exclusive benefit of, such corporation in the conduct of its business as a public utility, or to any other work which any such corporation shall be entitled by law to perform

without payment of any local tax; but all provisions of this code shall apply insofar as they may consistently with the above be applicable to all other electrical work performed by or for any such corporation.

The terms "electrical corporation," "telephone corporation," "telegraph corporation," "railroad corporation," and "street railroad corporation," are herein used as said terms are respectively defined in the Public Utility Code of the State of California; and such terms shall also be deemed to include similar utilities which are municipally or governmentally owned and operated.

Notwithstanding the foregoing, all electrical wiring and equipment installed, altered, repaired, or replaced shall comply with the provisions of this code.

Subsection 80.19(D) is amended in its entirety to read as follows:

- (D) Owner-Builder permits. Where a permit is issued as an 'Owner-Builder' for an electrical installation and such installation is of a more complex nature including but not limited to any of the following:
- 1. Installation or modification of distribution equipment, including main service and subpanels,
- 2. Installation of any interconnected power production systems,
- 3. Installation of any circuit greater than 20amps,

the permittee must provide documentation at the time of permit issuance that the work will be performed by a 'qualified person' as defined in Article 100 herein. Such documentation shall include one of the following:

- Documentation acceptable to the Building Official of training demonstrating the permittee or his
 employee possesses the skills and knowledge related to the construction and operation of the electrical
 equipment and/or installation as described in the permit including documentation of safety training to
 recognize and avoid the hazards involved. Any of the following would be considered acceptable
 documentation:
 - a. A journeyman electrician certificate
 - b. A C-10 electrical contractor's license
 - c. A certificate or other documentation showing satisfactory completion of a course in electrical installation and safety training from an accredited trade school
 - d. A degree in electrical engineering from an accredited college or university
 - e. Completion of electrical safety training complying with NFPA 70E-2009
 - f. Other documentation acceptable to the Building Official
- 2. Where the permittee chooses to have the work done by a licensed electrical contractor, the name and license information of the contractor shall be provided.

Subsection 80.19(E) is amended in its entirety to read as follows:

(E) Fees.

- 1. **General.** The City shall collect such fees as are required by this code as established by the City Council and issue receipts therefor, copies of which shall be maintained as record in the office of Building and Safety.
- 2. Cost of Permit. The cost of electrical permits shall be as established by the City Council.
- 3. **Refund.** In the event that any person shall have obtained an electrical permit and no portion of the work covered by such permit has been commenced and such permit shall have been canceled and a

written request for cancellation, having been approved by the Building Official, the applicant/permittee may request a refund from the City for a maximum of eighty (80) percent of the permit fees paid excluding issuance fees or plan review fees.

- 4. The applicant shall present all necessary documentation including the original signed permit and inspection record card to the Building Official showing they are entitled to receive such refund of the permit fee as described above. No refunds shall be granted after 90 days from the expiration of the permit. No refund shall be made for a permit which was obtained by falsification or misrepresentation and which was subsequently revoked for such cause.
- 5. Work Without a Permit. Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work.
- 6. **Investigation Fee.** An investigation fee shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be twice the amount of the permit fee required by this code and shall be in addition to any fees for permits issued in connection with the work investigated. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

Section 80.21 is amended to read as follows:

80.21 Plans Review. Review of plans and specifications, submittal document requirements, plan review fees, and expiration of plan review shall conform to (A) through (G).

Subsections 80.21(D), (E), (F), and (G) are added to read as follows:

(D) Submittal Documents. The Building Official shall require the submission of plans, specifications, drawings, descriptions and diagrams as appropriate to clearly show the character, kind, and extent of electrical work covered by an application for a permit. Such documents may be submitted in electronic format upon approval of the Building Official.

Exception: If in the opinion of the building official the scope of work is determined to be of a minor nature, the submittal of such documents may be waived by the Building Official.

(E) Information Required on Plans.

- 1. Every plan required by subsection (D) of this section shall be a print or other type approved by the Building and Safety Division. Electronic media documents may be submitted as determined by the Building Official. The information contained on the plans shall be drawn in a professional manner, be clearly legible and contain the information required in subsection (E)(2) of this section. Labeling, lettering, dimensioning, and numbering shall be of a size and style to be easily read and shall be in conformance with accepted professional practices and standards for architectural and engineering documents. Reasonable symbols satisfactory to the Division shall be used in all plans. Submitted plans and specifications, which are deemed incomplete or incorrect, shall be returned to the architect or registered engineer or other individual in general responsible charge with a request for compliance with these regulations before checking is begun or resumed by Building & Safety Division staff.
- 2. The following is required to be shown on the plans for all electrical installations requiring a permit:
 - a. A complete single line diagram;
 - b. The type, location, and capacity of all service equipment;

- c. The size and length of all feeder raceways;
- d. The dimensions of all pull or junction boxes larger than four (4) inches trade size;
- e. The number, size, and type of all conductors to be installed in each feeder circuit;
- f. The location of every proposed outlet and switch in all parts of the building or structure, including all fixed showcases, wall-cases, office furnishings, and similar wiring and the location of all existing circuits and outlets within or related to the areas of new or modified electrical installations;
- g. The location, voltage and HP rating of every motor that is not a component of a listed appliance and the KW rating of every generator;
- h. The location and KVA or equivalent rating of each transformer and similar equipment; and the location and ampere or wattage rating of other appliances of the noninductive type;
- i. Details of panelboard, switchboard and motor control center schedules, showing wattage and amperage, of active branch circuits to be installed or modified, and the number of spare branch circuits for future use. This shall include identifying the circuits to which the outlets are connected and listing the number and type of outlets;
- j. A lighting fixture schedule;
- k. The existing load, as calculated in accordance with Articles 210 and 220 of the NEC or by other methods satisfactory to the Building Official shall be indicated for existing installations, alterations, or additions made thereto;
- 1. Other additional information as the Building Official may consider necessary for proper enforcement of this code.

Exception (1): R-3 and U occupancies that are accessory to R-3. Information required is limited to the location of all electrical outlets, including, but not limited to receptacles, switches, lighting, power for appliances, disconnecting means for appliances, and the location and size of the electrical service and any sub-panel(s). Alternative power source systems and specialized electrical installations may require more information on the plans.

Exception (2): Some or all plan requirements may be waived at the discretion of the Building Official for work considered to be of a minor nature.

- (F) Plan Review Fees. Plan review fees shall be paid when the plans are submitted for review. The cost of the electrical plan review shall be as established by the City Council.
- (G) Expiration of Plan Review. Applications for which no electrical permit has been issued within one hundred eighty (180) days following the date of application, shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by the applicant for a period not exceeding one hundred eighty (180) days on request by the applicant showing that circumstances beyond the control of the applicant have prevented action from being taken. The Building Official may collect a fee for any application for extension of plan review in accordance with the City's fee schedule. No application shall be extended more than twice. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee.

Subsection 80.23(B)(3) is amended to read as follows:

(B) Penalties.

(3) Any person, firm, or corporation who violates any of the provisions of this code is guilty of a misdemeanor punishable by a fine not exceeding one thousand dollars (\$1,000.00) or by imprisonment not exceeding six (6) months, or by both such fine and imprisonment, (see Section 17995 of the State Health and Safety Code), unless such violation is otherwise declared to be an infraction by the City Council. Such person shall be guilty of a separate offense for each and every day or portion thereof during which any violation of any of the provisions of this code is committed, continued, or permitted to remain.

Section 80.25 is amended to read as follows:

- **80.25 Connection to Electricity Supply.** Connection to the electric supply shall conform to (A) through (D).
- (A) Authorization. Except as provided in 80.25, it shall be unlawful for any person, firm, or corporation to make connection to a supply of electricity or to supply electricity to any electric equipment installation for which a permit is required or that has been disconnected or ordered to be disconnected.
- (B) Special Consideration. By special permission of the Building Official, temporary power shall be permitted to be supplied to the premises for specific needs of the construction project.
- (C) Disconnection. The Building Official is empowered to disconnect or to order in writing the discontinuance of electrical service to wiring, devices or materials found to be dangerous and a hazard to life, health and property until the installation of such wiring, device or material has been made safe as directed by the Building Official.

Any person, firm, corporation, public utility, political subdivision or governmental agency ordered to discontinue such electrical service shall do so within twenty-four (24) hours after the receipt of such written notice and shall not reconnect such service or allow or cause the same to be reconnected until notified to do so by the Building Official.

(D) Service upgrades. Prior to the replacement of any electrical service, the licensed electrical contractor shall contact the local Utility Planning Department for guidance and shall proceed as directed by the Utility. Electrical supply lines shall not be reconnected to the service equipment until the installation has been inspected by the Building Official or an authorized representative of the Building Official. Under no circumstances shall a representative of the City of Santa Clarita inspect a service with exposed, energized components.

Section 80.27 is deleted in its entirety.

Section 80.29 is amended to read as follows:

80.29 Liability for Damages. Article 80 shall not be construed to affect the responsibility of liability of any party owning, designing, operating, controlling, or installing any electric equipment for damages to persons or property caused by a defect therein, nor shall the City of Santa Clarita or any of its employees by held as assuming any such liability by reason of the inspection, re-inspection, or other examination authorized.

Section 80.35 is deleted in its entirety.

CITY PLUMBING CODE

Adoption of the City of Santa Clarita Plumbing Code Including local amendments to the State adopted Codes As allowed by State law

Effective date: January 1, 2014

Table of Contents

CITY PLUMBING CODE

Chapters:

20.01	Adoption of the City Plumbing Code
20.02	Amendments to CPC Chapter 1 Division II; Administration
20.03	Amendments to CPC Chapter 3; General Regulations
20.04	Amendments to CPC Chapter 4; Plumbing Fixtures and Fixture Fittings
20.05	Amendments to CPC Chapter 7; Sanitary Drainage

Chapter 20.01 ADOPTION OF THE CITY PLUMBING CODE

There is hereby adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Part 5, further described and referred to as the 2013 California Plumbing Code published by the California Building Standards Commission and based on the Uniform Plumbing Code®, 2012 Edition, prepared by the International Association of Plumbing and Mechanical Officials.

The adoption of said code shall include those sections requiring enforcement by the local building department as mandated by the State and as further amended by the City of Santa Clarita with provisions intended to address local climatic, geologic, and topographic conditions, as permitted by State law. Adoption of said code shall include the adoption of the following appendices: Appendix A, Appendix B, Appendix D, Appendix G, and Appendix I.

Such code shall be and become the Santa Clarita Plumbing Code, regulating plumbing and drainage systems, house sewers, private sewage disposal, drainage systems, and prescribing conditions under which such work may be carried on within the City and providing for the issuance of permits and the collection of fees therefore.

The City Plumbing Code shall become effective for new permit applications received by the City on or after January 1, 2014.

At least one copy of the City Plumbing Code has been deposited in the office of the City Clerk and shall be at all times maintained by the Clerk for use and examination by the public.

Chapter 20.02 AMENDMENTS TO CHAPTER 1, DIVISION II OF THE CALIFORNIA PLUMBING CODE

The following sections of Chapter 1, Division II of the California Plumbing Code, as adopted by Section 20.01 hereof, are added, deleted, or amended as follows:

Subsection 101.1 is amended to read as follows:

101.1 Title These regulations shall be known as the Santa Clarita Plumbing Code and shall be used in conjunction with the provisions of Title 24, California Code of Regulations, mandated by the State of California to be enforced by the local building department, all of which may be cited herein as "this code."

Subsection 101.4.4 is added to read as follows:

101.4.4 Work in Public Right-of-Way. No person shall install, remove, alter or repair any sewer or part thereof which is located in any public way in the City of Santa Clarita without having first obtained a permit from the City Engineer or the State Department of Transportation, (CALTRANS), whichever agency may have jurisdiction over the particular thoroughfare affected.

Section 102.1 is amended to read as follows:

102.1 Authority Having Jurisdiction.

There is established within the City of Santa Clarita, a division in the Public Works Department known as the Building & Safety Division under the administrative and operational control of the City Building Official. The City Building Official is designated as the Authority Having Jurisdiction duly appointed to enforce this code.

Whenever the term "Authority Having Jurisdiction" or "Building Official" is used in any section of this code such term shall be construed to mean the City Building Official of the City of Santa Clarita.

Subsection 102.6 is added to read as follows:

102.4 Appeals.

Appeals of determination made by the Building Official for this code shall be made in accordance with Chapter 18.02 Subsection 18.02.210 of Title 18—City Building Code.

Subsection 103.4.1 is amended to read as follows:

103.4.1 Permit Fees. The fee for each permit shall be as set forth and adopted by the City Council.

Subsection 103.4.2 is amended to read as follows:

103.4.2 Plan Review Fees. When plans or other data are required to be submitted by Section 103.2.2, a plan review fee shall be paid at the time of submitting plans and specifications for review.

The plan review fees for plumbing work shall be as set forth and adopted by the City Council.

The plan review fees specified in this subsection are separate fees from the permit fees specified in this section and are in addition to the permit fees.

When plans are incomplete or changed so as to require additional review, an additional plan review fee shall be charged at the rate adopted by the City Council.

Subsection 103.4.4.2 is amended to read as follows:

103.4.4.2 An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to twice the amount of the permit fee that would be required by this code if a permit were to be issued and shall be in addition to any fees for permits issued in connection with the work investigated. The minimum investigation fee shall be as established by the City Council. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code, nor from any penalty prescribed by law.

Subsection 103.4.5.2 is amended to read as follows:

103.4.5.2 The Building Official may authorize the refunding of not more than 80 percent of any fee paid hereunder, excluding issuance fees or plan review fees, when no work has been done under a permit issued in accordance with this code. No refund shall be authorized except on written application filed by the original applicant or permittee not later than 90 days after the date the permit has expired or been cancelled.

Chapter 20.03 AMENDMENTS TO CHAPTER 3 OF THE CALIFORNIA PLUMBING CODE

The following section of Chapter 3 of the California Plumbing Code, as adopted by Section 20.01 hereof, is added as follows:

Subsection 301.1.5 is added to read as follows:

301.1.5 Used Materials. Previously used industrial apparatus and processing equipment may be reinstalled provided it complies with all applicable provisions of this code.

Chapter 20.04 AMENDMENTS TO CHAPTER 4 OF THE CALIFORNIA PLUMBING CODE

The following section of Chapter 4 of the California Plumbing Code, as adopted by Section 20.01 hereof, is amended as follows:

Subsection 422.2, Exception (3) is amended to read as follows:

422.2, Exception (3) In business and mercantile occupancies with a total occupant load of 50 or less, including customers and employees based on Table 1004.1.2 of the 2013 California Building Code, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes. (Amended for clarity only)

Chapter 20.05 AMENDMENTS TO CHAPTER 7 OF THE CALIFORNIA PLUMBING CODE

The following sections of Chapter 7 of the California Plumbing Code, as adopted by Section 20.01 hereof, are added, deleted, or amended as follows:

Section 714.6 is added to read as follows:

714.6 Water softener systems using dry wells for the discharge of effluents are prohibited in the City of Santa Clarita.

Exception: Systems with regeneration cycles discharging quantities of total dissolved solids that do not exceed those stipulated in the water quality objectives set by the Regional Water Quality Control Board when approved by the Building Official.

Section 714.7 is added to read as follows:

714.7 Automatic or self-regenerating water softener systems using sodium chloride (salt) or potassium chloride are prohibited in the City of Santa Clarita.

Exception: Commercially installed water softener systems that utilize portable exchange tanks maintained by a commercially licensed company where no brine waste is discharged into the public sewer system.

CITY MECHANICAL CODE

Adoption of the City of Santa Clarita Mechanical Code Including local amendments to the State adopted Codes As allowed by State law

Effective date: January 1, 2014

Table of Contents

CITY MECHANICAL CODE

Chapters:

21.01	Adoption of City Mechanical Code
21.02	Amendments to Chapter 1 Division II, Administration

Chapter 21.01

ADOPTION OF THE CITY MECHANICAL CODE

There is hereby adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Part 4, further described and referred to as the 2013 California Mechanical Code published by the California Building Standards Commission and based on the Uniform Mechanical Code®, 2012 Edition, prepared by the International Association of Plumbing and Mechanical Officials.

The adoption of said code shall include those sections requiring enforcement by the local building department and as further amended by the City of Santa Clarita with provisions intended to address local climatic, geologic, and topographic conditions, as permitted by State law. Adoption of said code shall include the adoption of the following appendices: Appendix D, Appendix F, and Appendix G.

Such code shall be and become the Santa Clarita Mechanical Code, regulating heating, ventilating, comfort cooling, refrigeration systems and other miscellaneous heating appliances, prescribing conditions under which such work may be performed within the City and providing for the issuance of permits and the collection of fees therefore.

The City Mechanical Code shall become effective for new permit applications received by the City on or after January 1, 2014.

At least one copy of the City Mechanical Code has been deposited in the office of the City Clerk and shall be at all times maintained by the Clerk for use and examination by the public.

Chapter 21.02 AMENDMENTS TO CHAPTER 1 DIVISION II OF THE CALIFORNIA MECHANICAL CODE

The following sections of Chapter 1 Division II of the California Mechanical Code, as adopted by Chapter 21.01 hereof, are added, deleted, or amended as follows:

Section 101.0 is amended to read as follows:

101.0 Title. These regulations shall be known as the Santa Clarita Mechanical Code and shall be used in conjunction with the provisions of Title 24, California Code of Regulations, mandated by the State of California to be enforced by the local building department, all of which may be cited herein as "this code."

Section 105.0 is amended to read as follows:

105.0 Alternate Materials and Methods of Construction Equivalency. Nothing in this code is intended to prevent the use of any material, appliance, installation, device, arrangement, or method of construction not specifically prescribed, provided any such alternate has been approved by the Building Official.

The Building Official may approve any such alternate, provided, it is determined that the proposed design is satisfactory and complies with the technical provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in suitability, strength, effectiveness, fire resistance, durability, and safety.

Such approval shall be based upon submittal of substantiating data and including, but not limited to, performance characteristics, measurements, calculations, diagrams, equipment and construction factors, where applicable.

A written application shall be submitted for a proposed alternate material or method of construction together with a fee established by the City Council. The details of any action granting an alternate material or method of construction shall be noted in the files of the Building & Safety Division of the City.

Subsection 108.1 is amended to read as follows:

108.1 General. There is established within the City of Santa Clarita, a division in the Public Works Department known as the Building and Safety Division under the administrative and operational control of the City Building Official. The City Building Official is designated as the Authority Having Jurisdiction duly appointed to enforce this code.

Whenever the term "Authority Having Jurisdiction" or "Building Official" is used in any section of this code such term shall be construed to mean the City Building Official of the City of Santa Clarita.

The Building Official is authorized and directed to enforce all of the provisions of this code and to make inspections pursuant to the provisions of this code. For such purposes the Building Official shall have the powers of a law enforcement officer.

The Building Official shall have the power to render interpretations of this code and to adopt and enforce rules and regulations supplemental to this code as may be deemed necessary in order to clarify the application of the provisions of this code. Such interpretations, rules, and regulations shall be in

conformity with the intent and purpose of this code.

Subsection 115.2 is amended as follows:

115.2 Permit Fees. The fee for each permit shall be as set forth and adopted by the City Council.

Subsection 115.3 is amended as follows:

115.3 Plan Review Fees. When plans or other data are required to be submitted by Section 113.2, a plan review fee shall be paid at the time of submitting plans and specifications for review. The plan review fees for mechanical work shall be as set forth and adopted by the City Council.

The plan review fees specified in this subsection are separate fees from the permit fees specified in section 115.2 and are in addition to the permit fees.

When plans are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate adopted by the City Council.

Subsection 115.5.2 is amended to read as follows:

115.5.2 Investigation Fee. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to twice the amount of the permit fee that would be required by this code if a permit were to be issued and shall be in addition to any fees for permits issued in connection with the work investigated. The minimum investigation fee shall be as established by the City Council. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code, nor from any penalty prescribed by law.

Subsection 115.6.1 is amended to read as follows:

115.6.1 The Building Official may authorize the refunding of not more than 80 percent of the permit fee, excluding issuance fees or plan review fees, paid hereunder when no work has been done under a permit issued in accordance with this code.

Subsection 115.6.2 is amended to read as follows:

115.6.2 The Building Official may authorize the refunding of not more than 80 percent of the plan review fee paid hereunder, when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

Subsection 115.6.3 is amended to read as follows:

115.6.3 The Building Official shall not authorize refunding of any fee paid except upon written application filed by the original permittee or applicant not exceeding 90 days from the expiration or cancellation of the permit or application for a permit.

CITY FIRE CODE

Adoption of the City of Santa Clarita Fire Code Including County of Los Angeles amendments to the State adopted Codes As allowed by State law

Effective date: January 1, 2014

ADOPTION OF THE CITY FIRE CODE

There is hereby adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Part 9, further described and referred to as the 2013 California Fire Code published by the California Building Standards Commission and based on the International Fire Code®, 2012 Edition, prepared by the International Code Council.

Adoption of said code shall include such amendments to the 2013 California Fire Code as duly adopted by the County of Los Angeles and referred to as Title 32 of the Los Angeles County Code, also known as the County of Los Angeles Fire Code.

Such code shall be and become the Santa Clarita Fire Code, regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the occupancy of buildings and premises in the City of Santa Clarita.

The Santa Clarita Fire Code shall become effective January 1, 2014.

At least one copy of the Santa Clarita Fire Code has been deposited in the office of the City Clerk, and shall be at all times maintained by the Clerk for use and examination by the public.

CITY ENERGY CONSERVATION CODE

Adoption of the City of Santa Clarita Energy Conservation Code

Effective date: January 1, 2014

ADOPTION OF THE CITY ENERGY CONSERVATION CODE

There is hereby adopted by reference that certain code known and designated as California Code of Regulations, Title 24, Part 6, further described and referred to as the 2013 California Energy Code, published by the California Building Standards Commission.

Such code shall include those sections requiring enforcement by the local building department, and as further amended by the City of Santa Clarita with provisions intended to address local climatic, geologic and topographic conditions, as permitted by State law.

Such Code shall be and become the City of Santa Clarita Energy Conservation Code, regulating the design, construction, alteration, installation, or repair of building envelopes, space-conditioning systems, water-heating systems, indoor lighting systems of buildings, and outdoor lighting and signage, and certain equipment to enhance the efficiency and reduce energy use of such buildings as specifically provided for therein.

The City of Santa Clarita Energy Conservation Code shall become effective for new building permit applications received by the City on or after January 1, 2014.

At least one copy of the City of Santa Clarita Energy Conservation Code shall be maintained and kept available for reference and examination by the public at the City's Permit Center public counter.

CITY GREEN BUILDING STANDARDS CODE

Adoption of the City of Santa Clarita Green Building Standards Code

Effective date: January 1, 2014

ADOPTION OF THE CITY GREEN BUILDING STANDARDS CODE

There is hereby adopted by reference that certain code known and designated as the California Code of Regulations, Title 24, Part 11, further described as the 2013 California Green Building Standards Code, also referred to as the 2013 CalGreen Code, published by the California Building Standards Commission.

Adoption of said code shall include those sections requiring enforcement by the local jurisdiction, and shall include the adoption of Appendices A4 and A5 contained therein as voluntary provisions only.

Such Code shall be and become the City of Santa Clarita Green Building Standards Code, regulating the planning, design, operation, construction, use and occupancy of every new building or structure to ensure buildings have a more positive environmental impact and encourage sustainable construction practices as specifically provided for therein.

The City of Santa Clarita Green Building Standards Code shall become effective for new building permit applications received by the City on or after January 1, 2014.

At least one copy of the City of Santa Clarita Green Building Standards Code shall be maintained and kept available for reference and examination by the public at the City's Permit Center public counter.